

# DEPARTMENT OF THE ARMY PERMIT

**Permittee:** Florida Department of Transportation - District 5  
Attn: Patrick Muench  
719 S. Woodland Blvd.  
Deland, Florida 32720

**Permit No:** SAJ-2008-1810 (IP-AWP)

**Issuing Office: U.S. Army Engineer District, Jacksonville**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

**Project Description:** The placement of clean fill material into 2.03 acres of waters of the United States, wetlands and surface waters, and 0.17 acres of temporary impact to Lake Lucien for the widening of Interstate 4 from south of Orange Blossom Trail to north of Maitland Blvd. An additional 0.23 acre of shading impact will occur to Lake Concord as a result of the widening. The U.S. Army Corps of Engineers (Corps) has determined Lakes Lucerne and Angel are not jurisdictional water of the United States. Further, the Corps will not regulate impacts to the existing stormwater management systems created from uplands as identified in the Administrative Action Finding of No Significant Impact completed for I-4 Six Laning and St. Johns River Bridge Project. The work described above is to be completed in accordance with the 3 attachments affixed at the end of this permit instrument.

**Project Location:** The applicant proposes to impact wetlands located within the right-of-way of Interstate 4 from south of Orange Blossom Trail to north of Maitland Blvd. The project is located in Sections 26 & 35, Township 21 South, Range 29 East, Sections 2, 11, 12, 13, 24, 25, 35, & 36, Township 22 South, Range 29 East, Sections 2, 3, 9, 10, & 11, Township 23 South, Range 29 East, Orange County, Florida.

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**Directions to site:** The project is located within the right-of-way of Interstate 4 from south of Orange Blossom Trail to north of Maitland Blvd.

**Latitude & Longitude:** Latitude 28.5631 North  
Longitude 81.3778 West

**Permit Conditions**

**General Conditions:**

1. The time limit for completing the work authorized ends on **March 9, 2019**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions

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specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

1. **Reporting Address:** All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. 4970, Jacksonville, Florida 32232. The Permittee shall reference this permit number, SAJ-2008-4725(IP-AWP), on all submittals.
2. **Commencement Notification:** Within 10 days from the date of initiating the authorized work, the Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit.
3. **Erosion Control:** Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be stabilized using sod, degradable mats, barriers, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work has been completed and the site has been stabilized.
4. **As-Builts:** Within 60 days of completion of the authorized work or at the expiration of the construction window of this permit, whichever occurs first, the Permittee shall submit as-built drawings of the authorized work and a completed As-Built Certification Form (Attachment 3) to the Corps. The drawings shall be signed and sealed by a registered professional engineer and include the following:

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a. A plan view drawing of the location of the authorized work footprint (as shown on the permit drawings) with an overlay of the work as constructed in the same scale as the attached permit drawings (8½-inch by 11-inch). The drawing should show all "earth disturbance," including wetland impacts, water management structures, and any on-site mitigation areas.

b. List any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the As-Built Certification Form the deviations between the work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the U.S. Army Corps of Engineers.

c. The Department of the Army Permit number.

d. Include pre- and post-construction aerial photographs of the project site, if available.

5. **Fill Material:** The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

6. **Regulatory Agency Changes:** Should any other regulatory agency require changes to the work authorized or obligated by this permit, the Permittee is advised that a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Cocoa Regulatory Office.

7. **Compensatory Mitigation:** Wetland impacts will be mitigated pursuant to the Senate Bill 1986 Rule - Section 373.4137 Florida Statutes (F.S.). Within 6 months from the date of initiating the authorized work or 12 months from the effective date of this permit, whichever first occurs, the Permittee shall complete



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compensatory mitigation in accordance with the 2009-2010 St. Johns River Water Management District (SJRWMD) FDOT MITIGATION PLAN, Mitigation Project Group SJ56, #242484-5-32-01. Approved mitigation planned for this mitigation group consists of a combination of preservation and habitat enhancement and mitigation bank credit acquisition. The Permittee must ensure 1.18 functional units are replaced within Basin 18.

SJRWMD shall submit an annual status report and five year update of the mitigation described above in accordance with the Memorandum of Understanding between the SJRWMD and the United States Army Corps of Engineers, Jacksonville District signed October 16, 2007 and October 9, 2007 respectively.

**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

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3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

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Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

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Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
(PERMITTEE)

3/5/09  
(DATE)

Patrick M. Muench  
(PERMITTEE NAME-PRINTED)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

  
(DISTRICT ENGINEER)  
Paul L. Grosskruger  
Colonel, U.S. Army  
District Commander

3/5/09  
(DATE)

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When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFeree-SIGNATURE)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(NAME-PRINTED)

\_\_\_\_\_  
(ADDRESS)

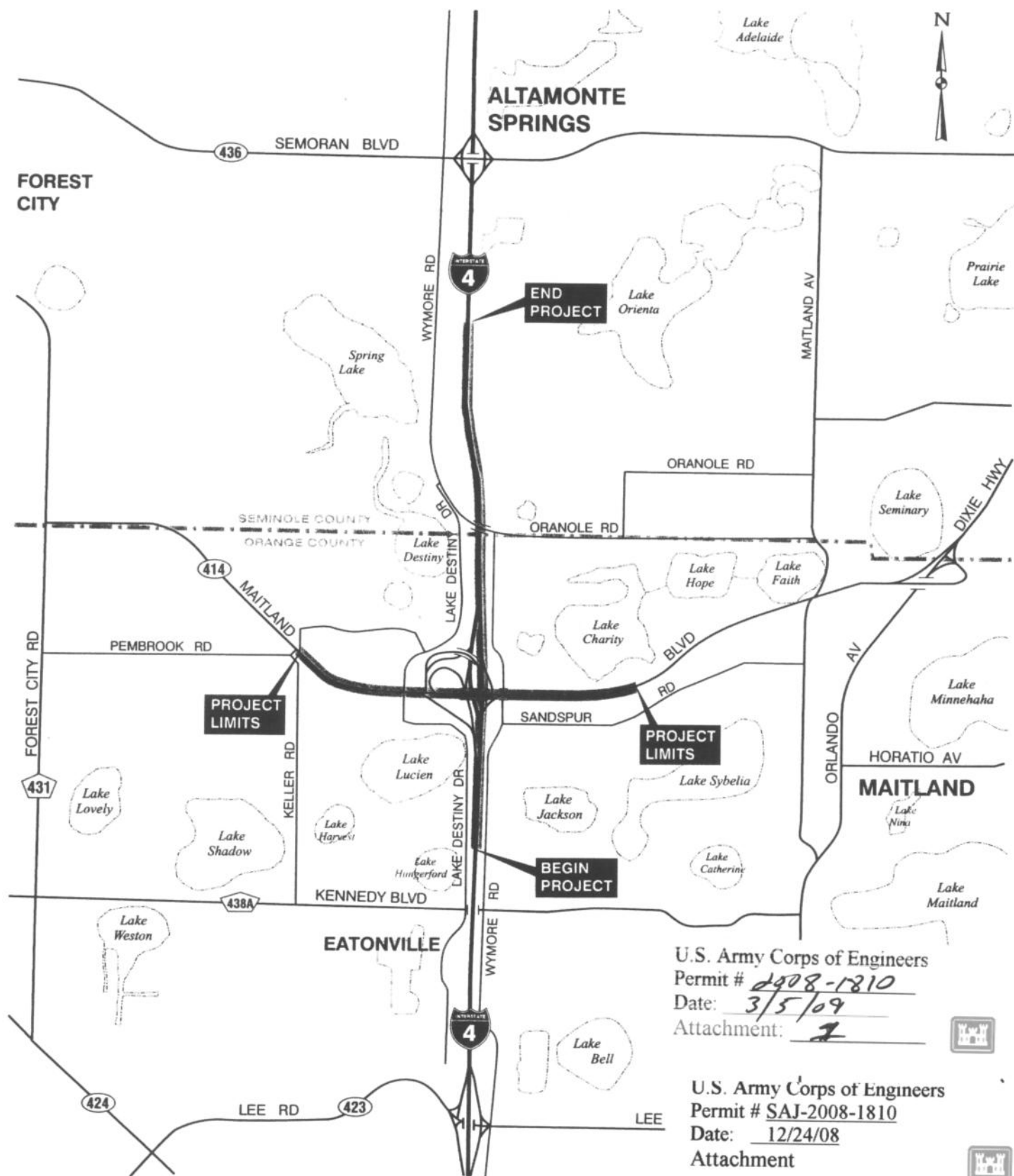
\_\_\_\_\_  
(CITY, STATE, AND ZIP CODE)

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***Attachments to Department of the Army  
Permit Number SAJ-2008-1810(IP-AWP)***

1. PERMIT DRAWINGS: 32 pages
2. WATER QUALITY CERTIFICATION: Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 6 pages.
3. AS-BUILT CERTIFICATION: 1 page



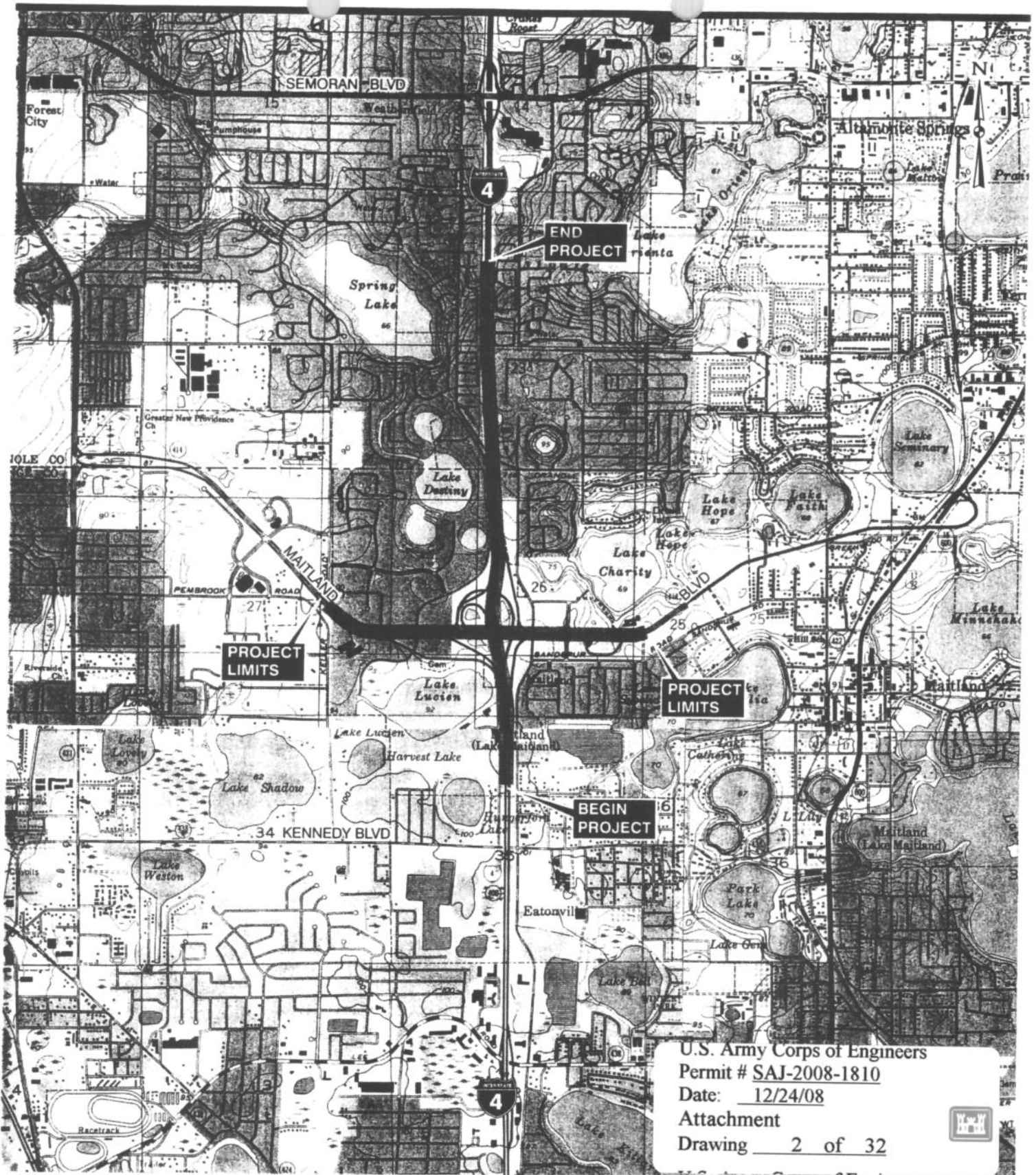


**SR 400 (I-4)**  
 North of Kennedy Boulevard  
 to north of Maitland Boulevard  
 ORANGE AND SEMINOLE COUNTIES  
 Fin No. 242484-6-32-01



## Project Location Map

Figure 1



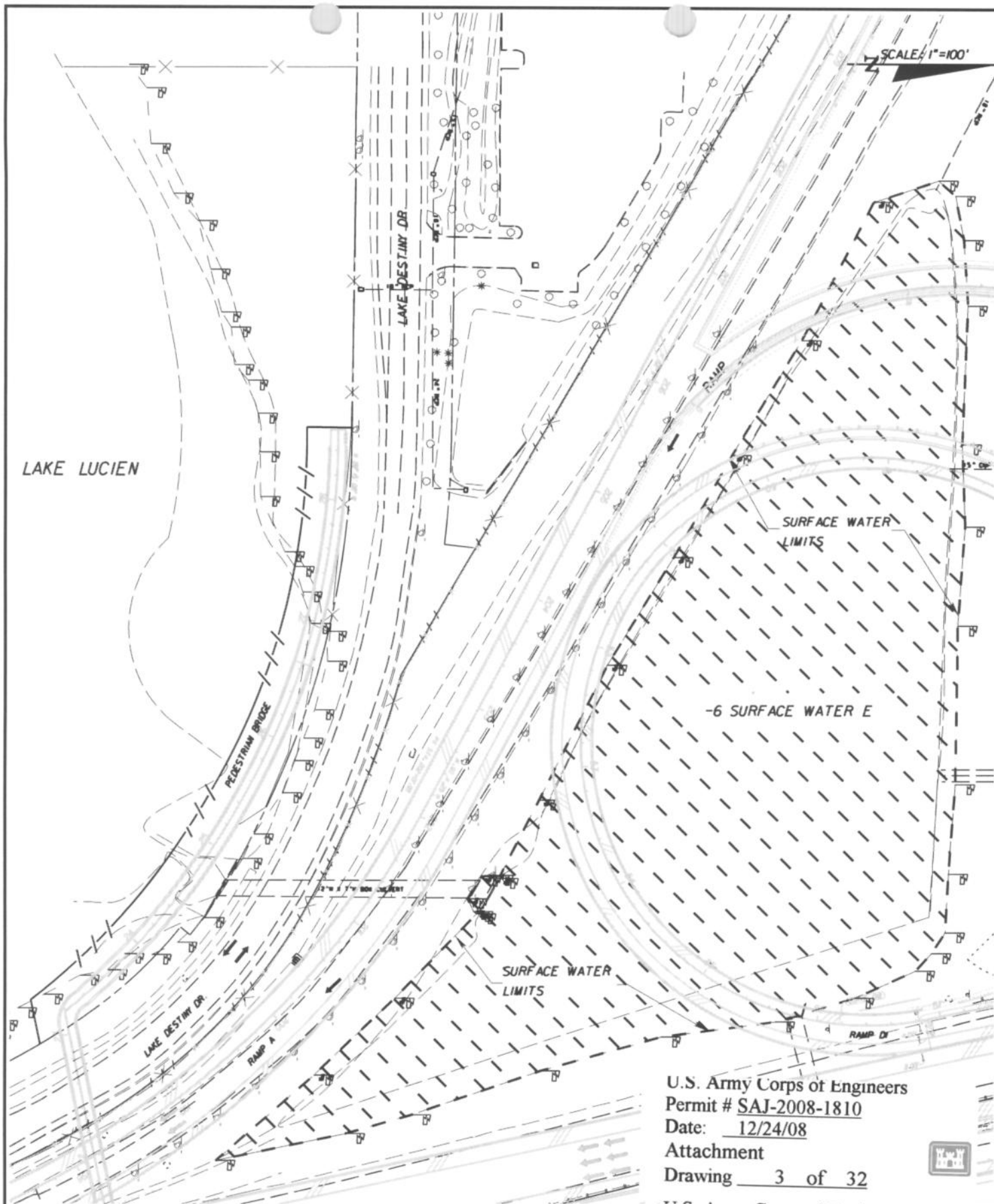
SOURCE: USGS Quadrangle Forest City, Florida, Photorevised 1980; USGS Quadrangle Casselberry, Florida, Photorevised 1980; USGS Quadrangle Orlando East, Florida, photorevised 1980; and USGS Quadrangle Orlando West, Florida, Photorevised 1980

**SR 400 (I-4)**  
 North of Kennedy Boulevard  
 to north of Maitland Boulevard  
 ORANGE AND SEMINOLE COUNTIES  
 Fin No. 242484-6-32-01



**USGS Quad Map**

Figure 2

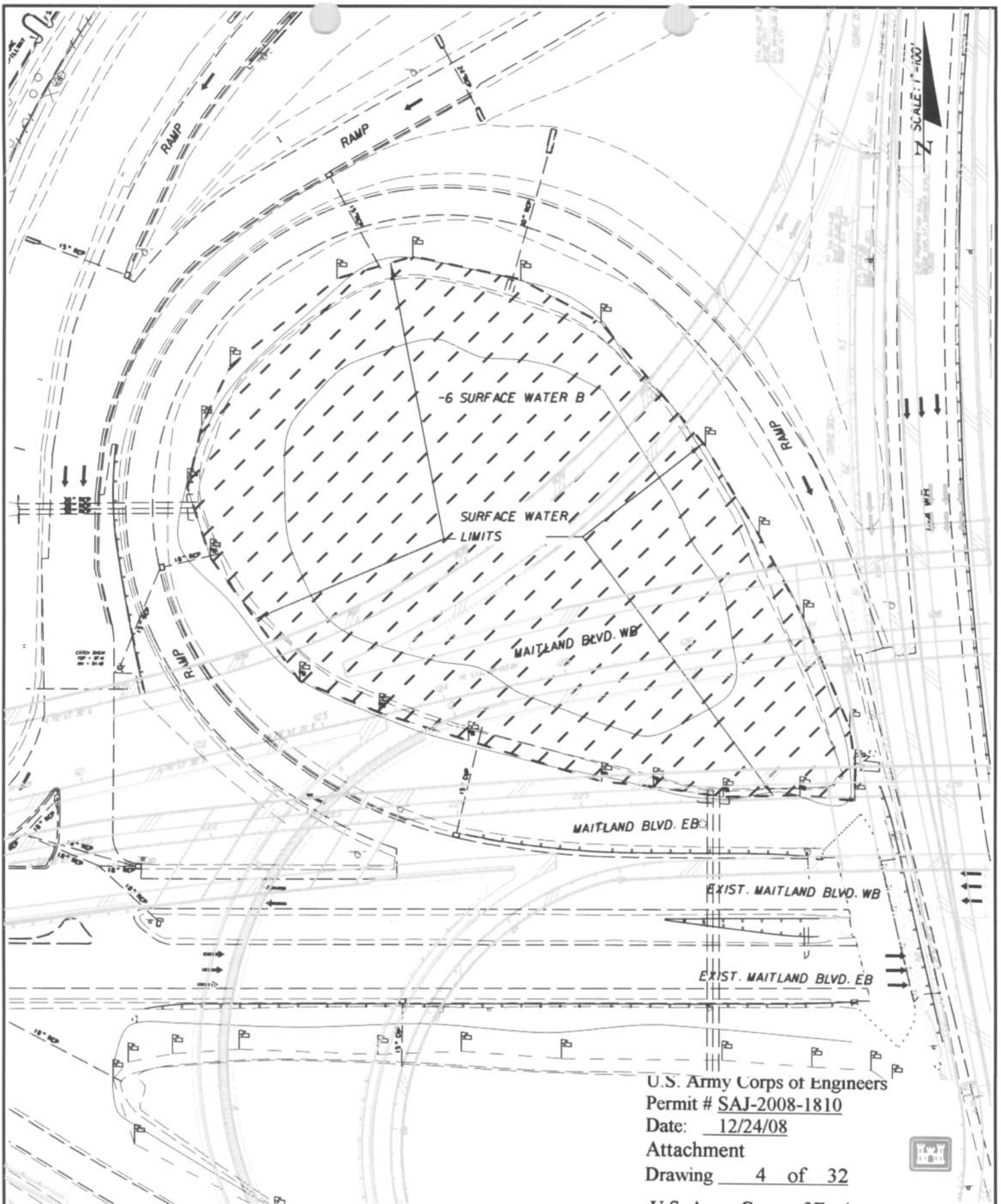


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	242484-6-52-01

**I-4/MAITLAND BLVD.  
WETLAND SURVEY**

SHEET  
NO.

1



U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 4 of 32

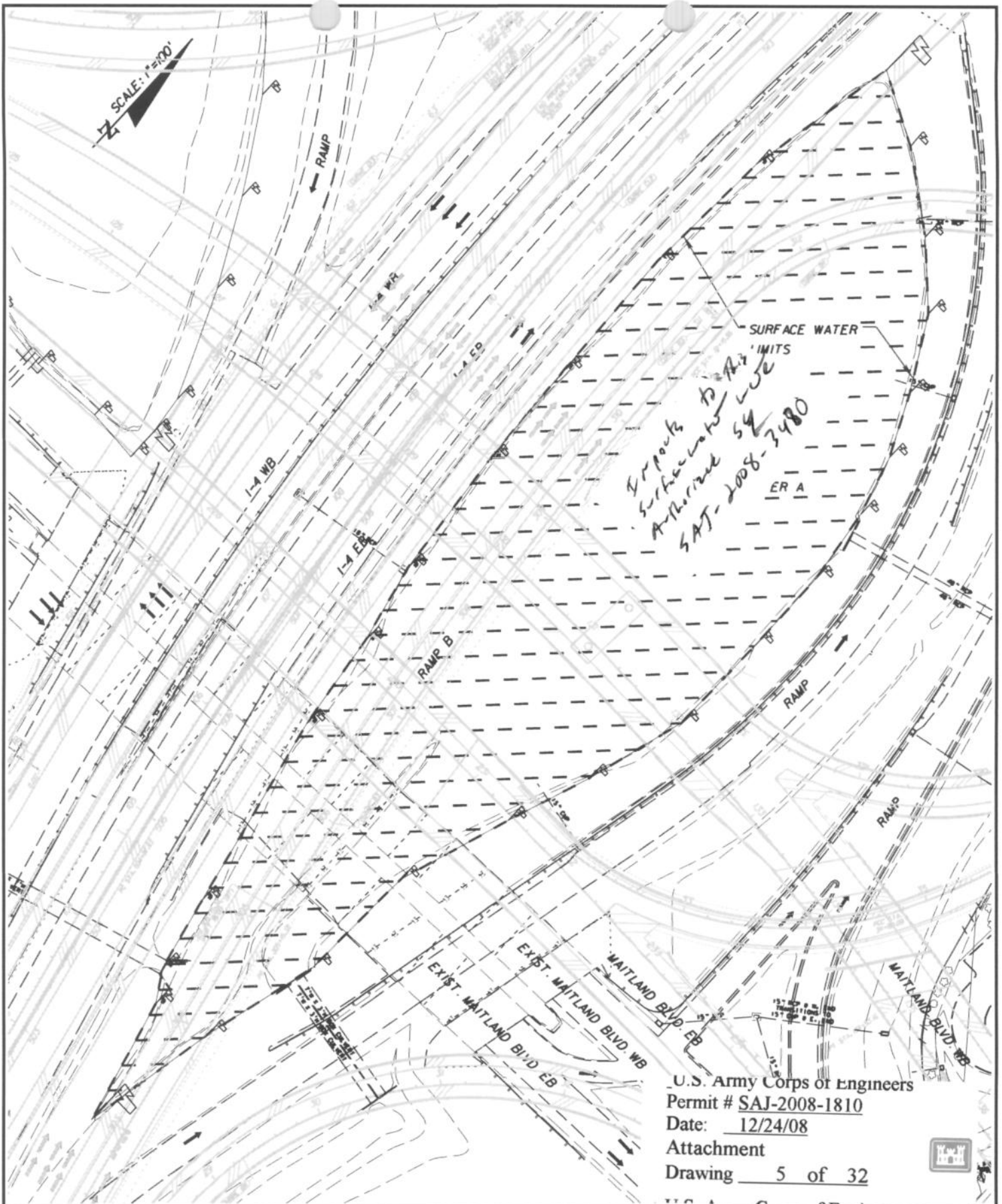
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	242484-6-52-01

## I-4/MAITLAND BLVD. WETLAND SURVEY

SHEET  
NO.

2



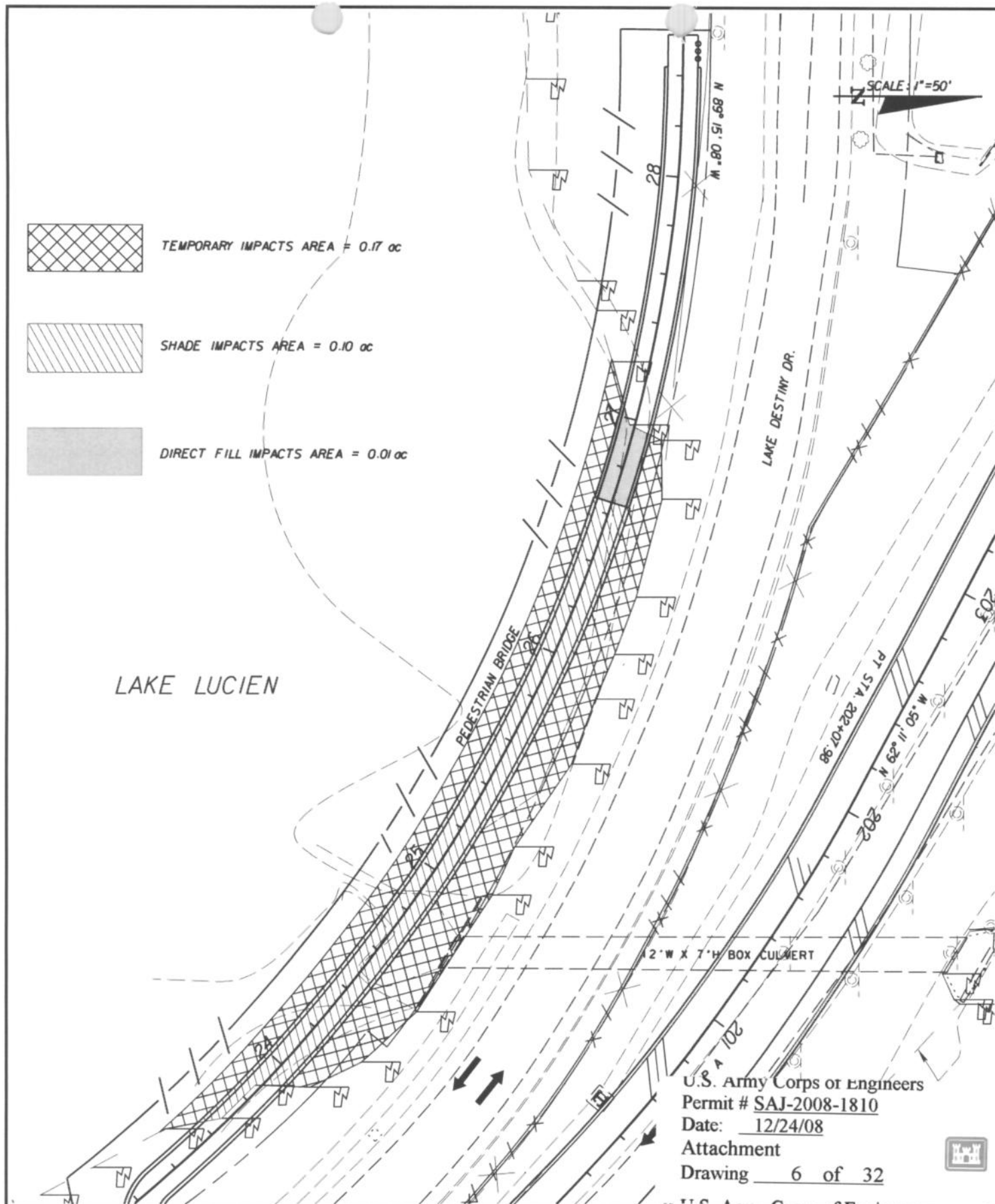


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	242484-6-52-01

**I-4/MAITLAND BLVD.  
WETLAND SURVEY**

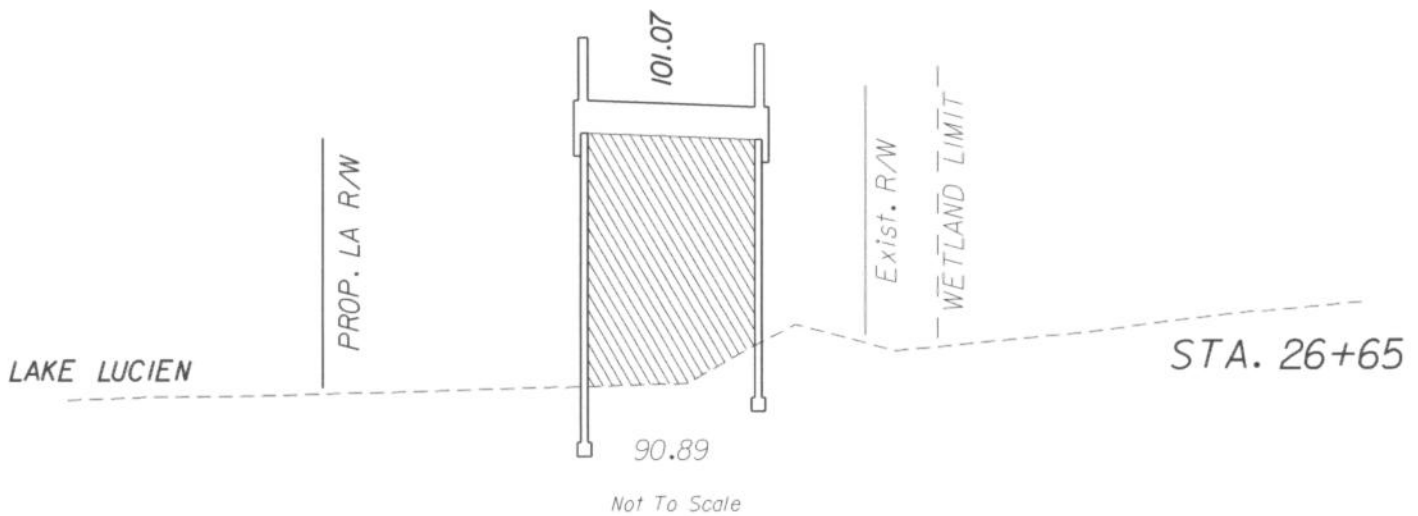
SHEET  
NO.

3



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			I-4/MAITLAND BLVD. WETLAND SURVEY	SHEET NO.  4
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
SR 400	ORANGE	242484-6-52-01		



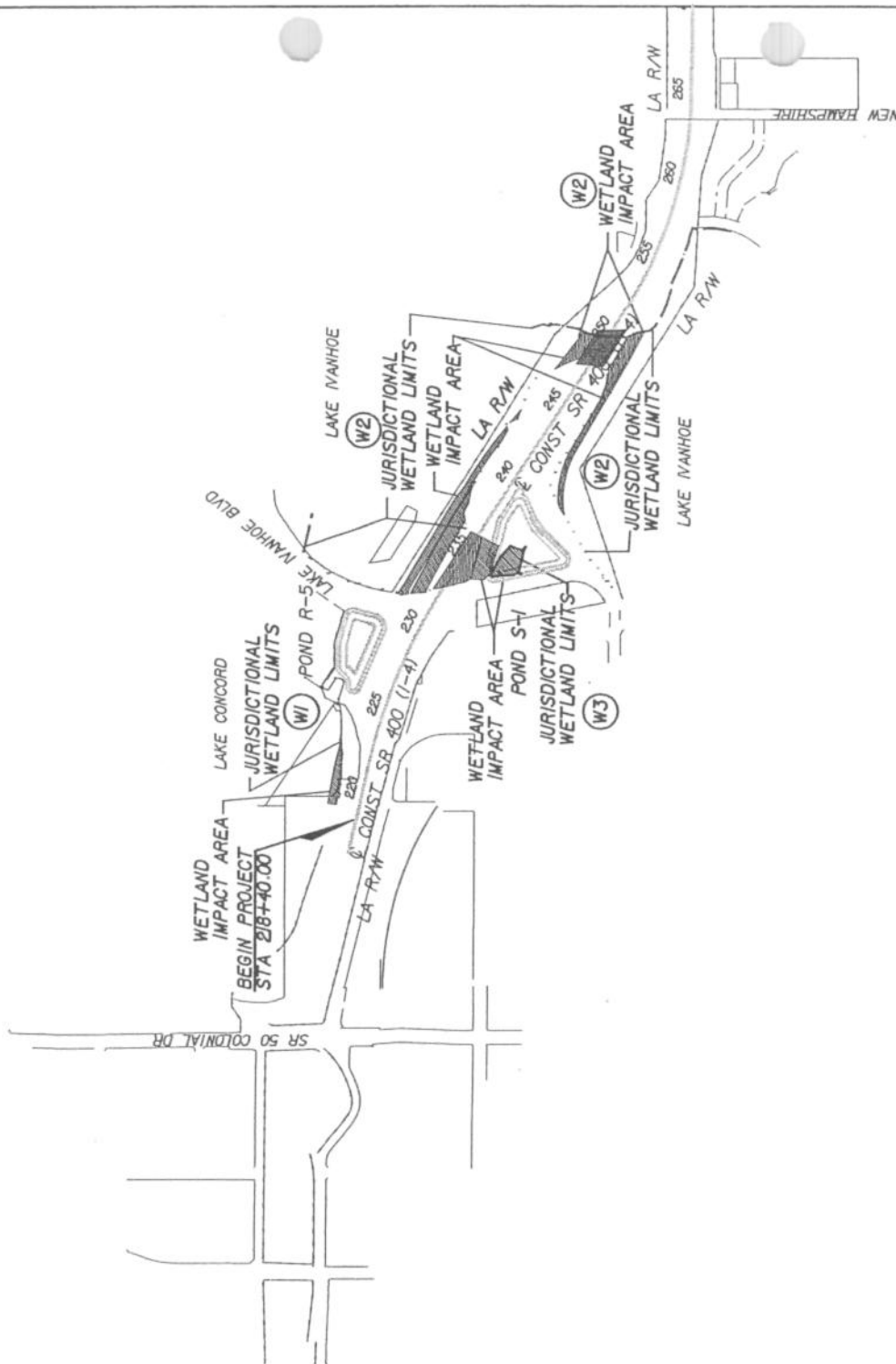


DIRECT FILL IMPACT

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 7 of 32



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			I-4/MAITLAND BLVD. CROSS SECTION	SHEET NO.  5
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
SR 400	ORANGE	242484-6-52-01		



LOCATION MAP  
SCALE: 1" = 1000'

U.S. Army Corps of Engineers  
Permit # SAJ-2008-1810  
Date: 12/24/08  
Attachment  
Drawing 8 of 32



FINANCIAL PROJECT NO. 242484-5-32-01

COUNTY: ORANGE

DER	CG	SHEET 1 OF 3
COE	WHD	DATE 8/07

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: \_\_\_\_\_  
SIGNATURE \_\_\_\_\_  
CERTIFICATE NO. \_\_\_\_\_  
DATE: \_\_\_\_\_

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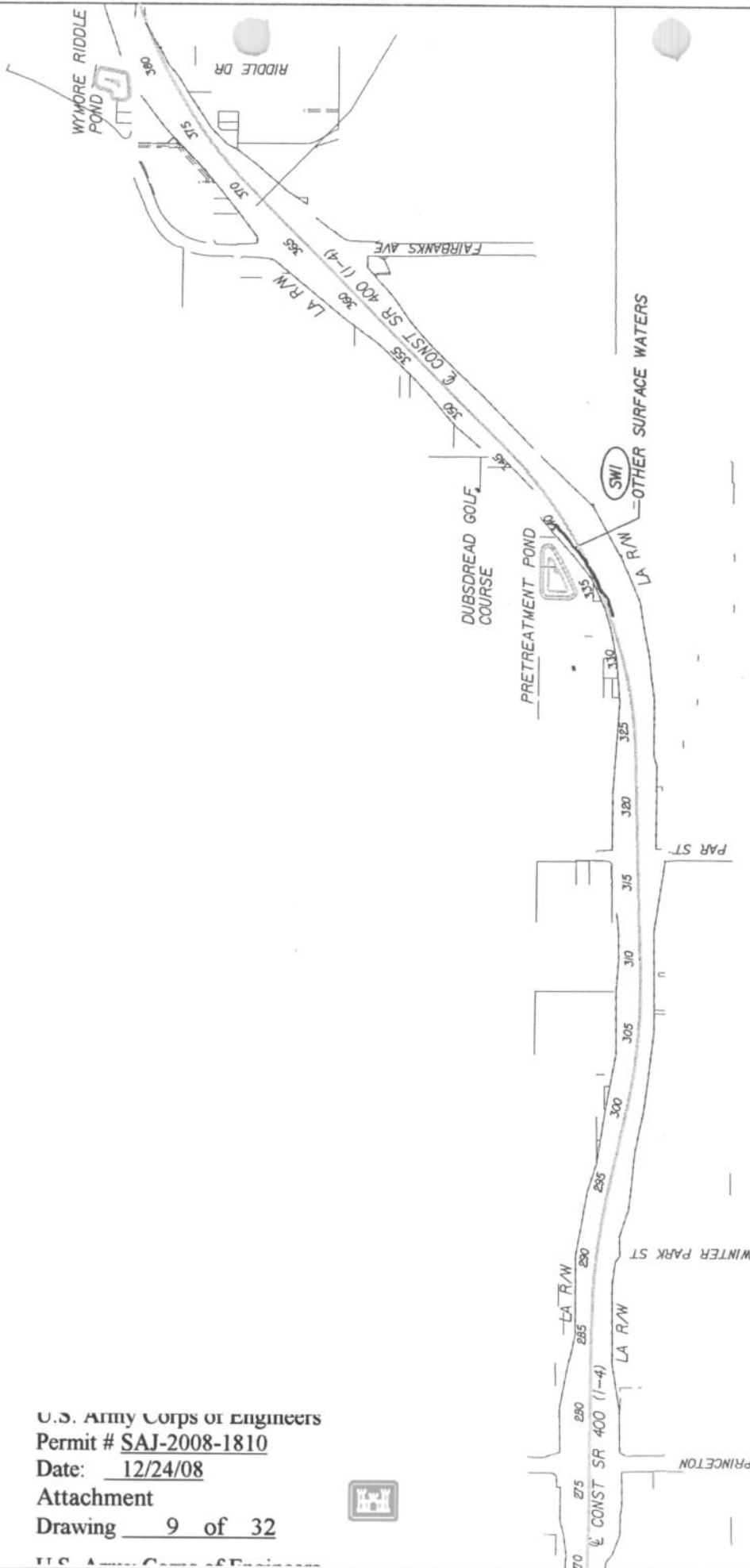
TWP: 22 S, 21 S      RING: 29 E

SEC: 2, 8, 11, 12, 23, 24

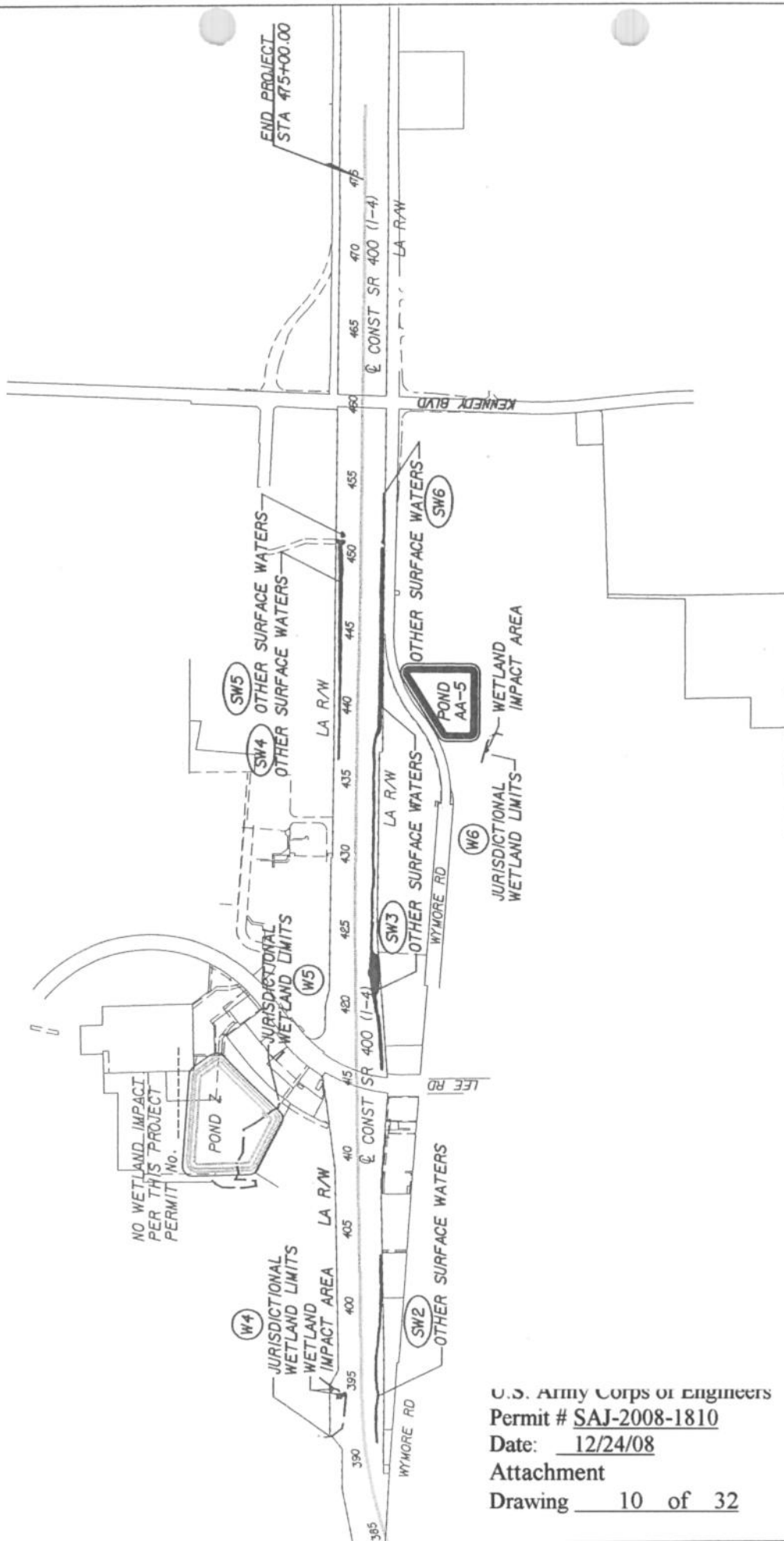
U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 9 of 32



LOCATION MAP  
 SCALE: 1" = 1000'



PROJECT DESCRIPTION: SR 400 (1-4)		FINANCIAL PROJECT NO. 242484-5-32-01	
TWP: 22 S, 21 S		COUNTY: ORANGE	
SEC: 2, 8, 11, 12, 23, 24		DER	CG
RNG: 29 E		COE	WMD
SIGNATURE _____		DATE: 8/07	
CERTIFICATE NO. _____		SHEET 2 OF 3	

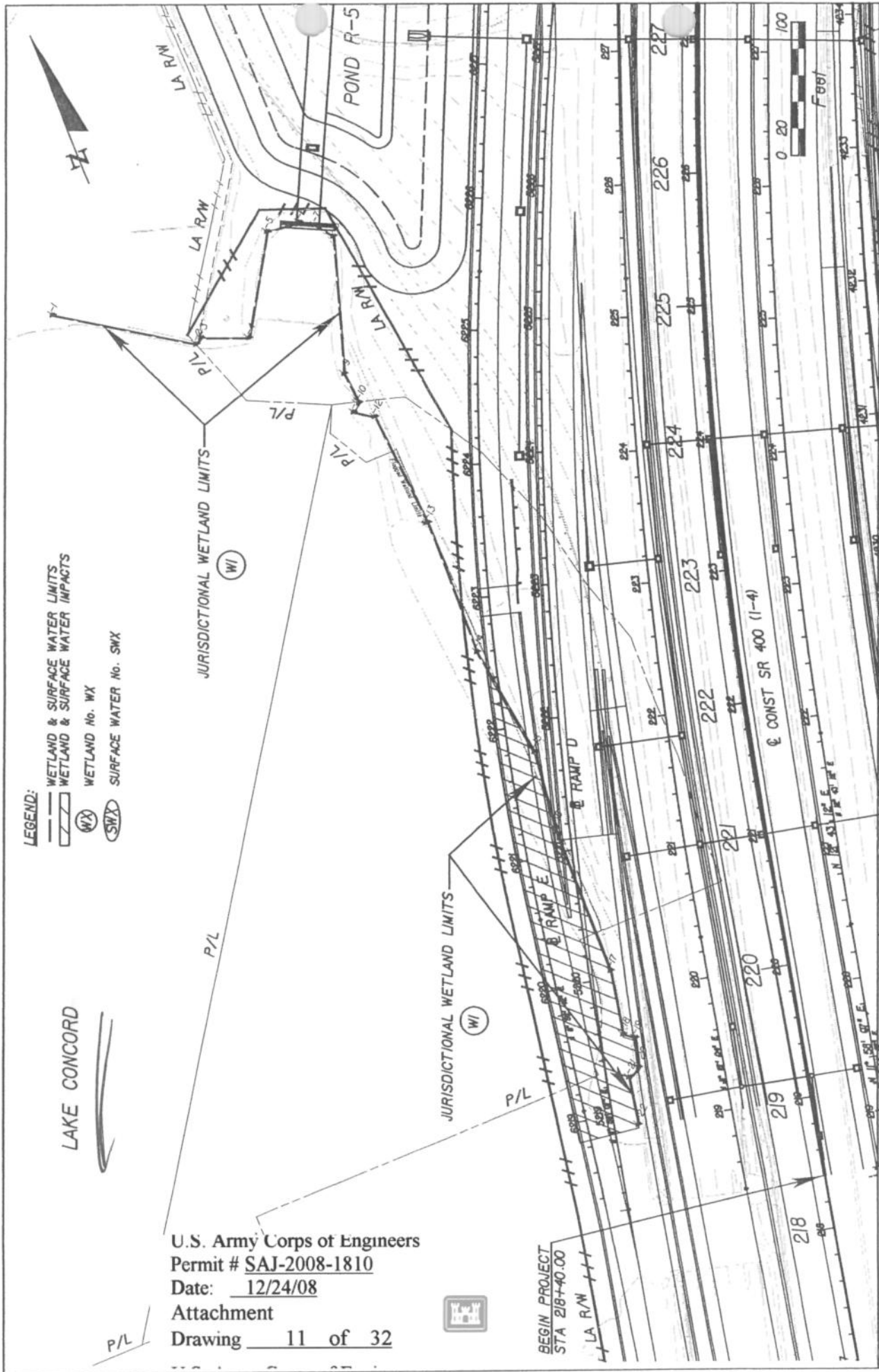


U.S. Army Corps of Engineers  
Permit # SAJ-2008-1810  
Date: 12/24/08  
Attachment  
Drawing 10 of 32



LOCATION MAP  
SCALE: 1" = 1000'

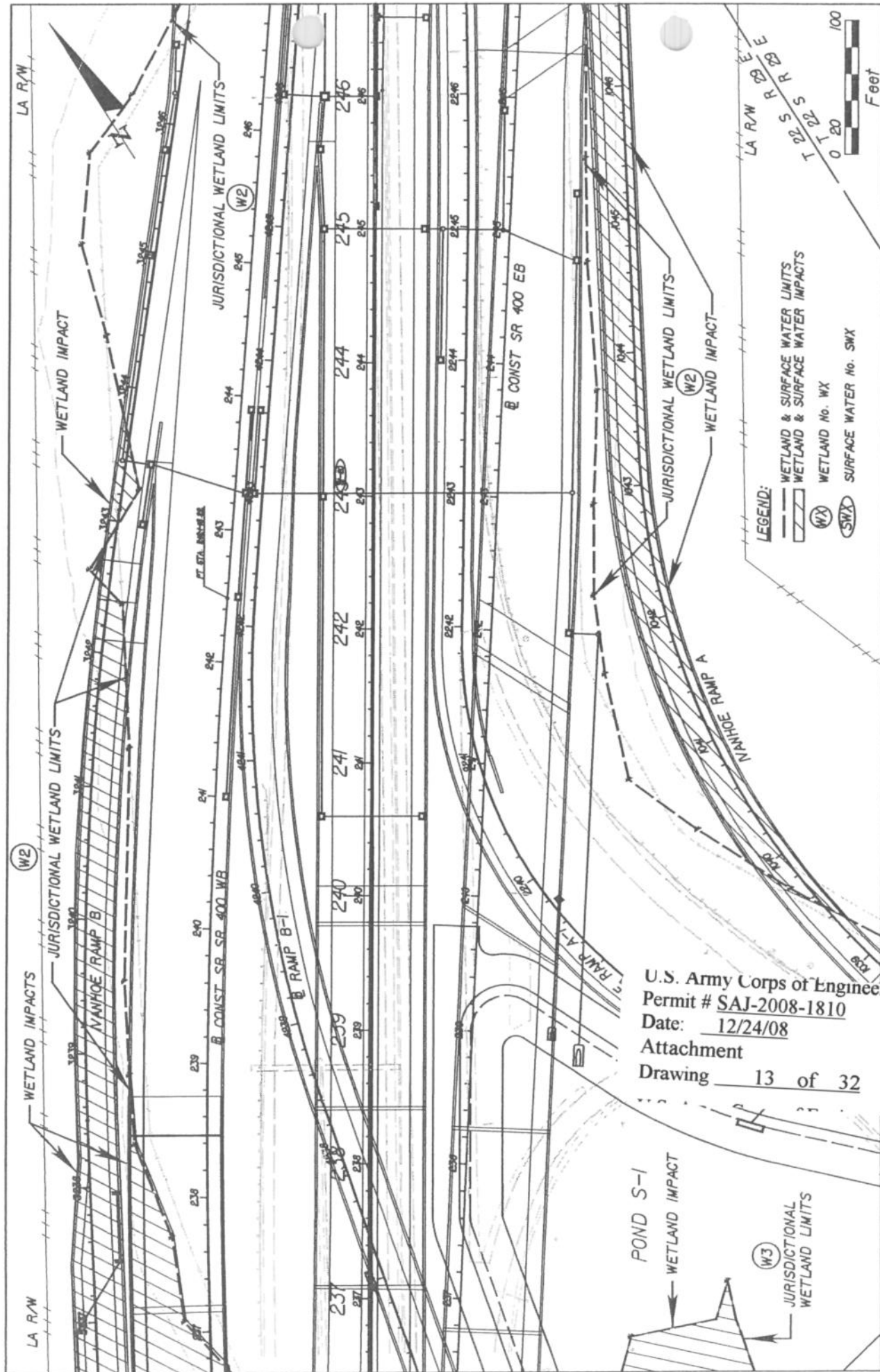
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		NAME: _____		COUNTY: ORANGE	
TWP: 22 S, 21 S		SIGNATURE _____		DER	CG
SEC: 2, 8, 11, 12, 23, 24		CERTIFICATE NO. _____		COE	WMD
		DATE: _____			DATE 8/07
				SHEET 3 OF 3	



PROJECT DESCRIPTION: SR 400 (1-4)		FINANCIAL PROJECT NO. 242484-5-32-01	
FLORIDA DEPARTMENT OF TRANSPORTATION		COUNTY: ORANGE	
NAME: _____	DER _____	COG _____	SHEET 1 OF 14
SIGNATURE _____	COE _____	WWD _____	DATE 8/07
TWP: 22 S, 21 S	RNG: 29 E	SEC: 2, 8, 11, 12, 23, 24	







U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 13 of 32

FINANCIAL PROJECT NO. 242484-5-32-01

FLORIDA DEPARTMENT OF TRANSPORTATION

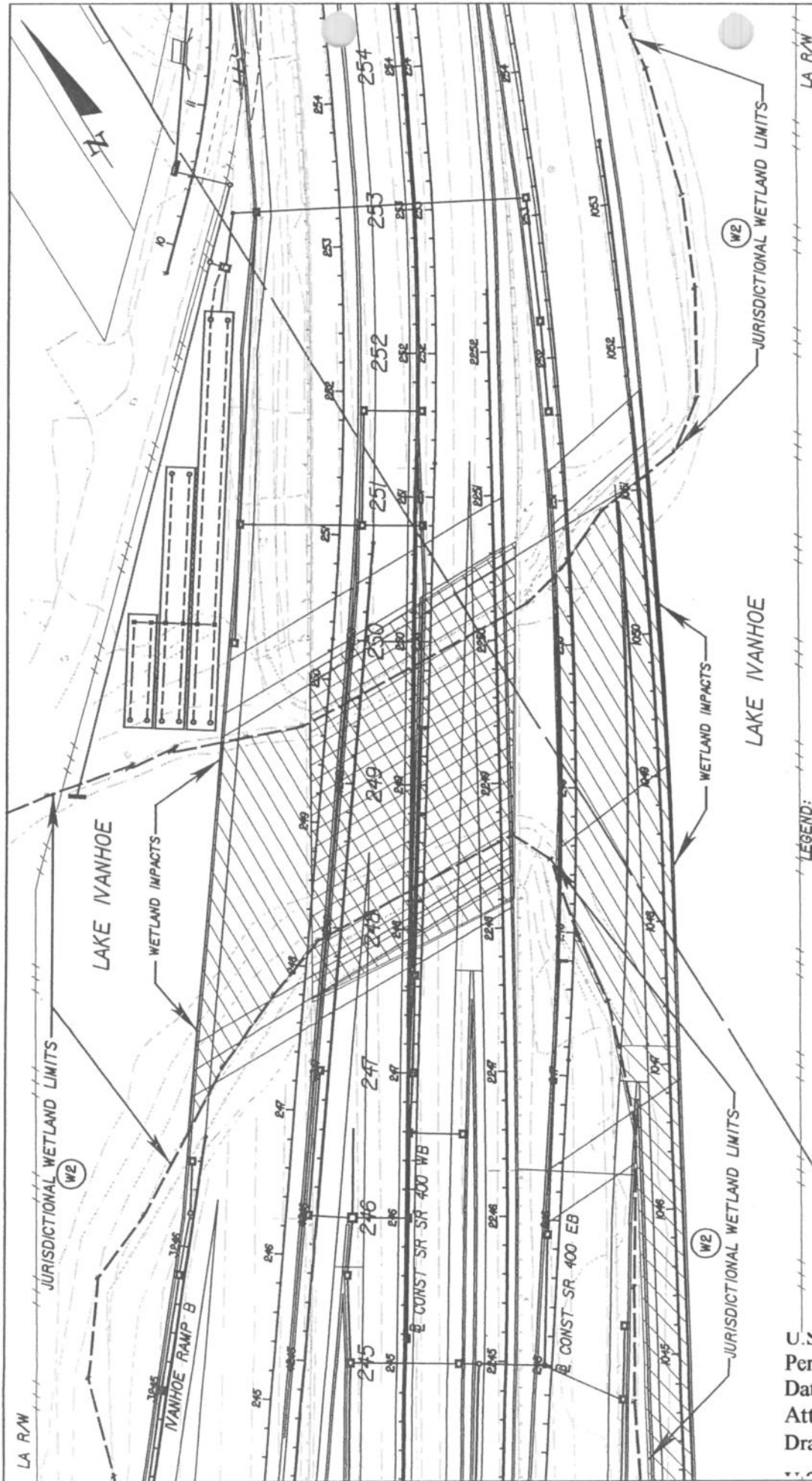
COUNTY: ORANGE

NAME: _____	DER	CG	SHEET 3 OF 14
SIGNATURE _____	COE	WMD	DATE 8/07
CERTIFICATE NO. _____			

PROJECT DESCRIPTION: SR 400 (I

TWP: 22 S, 21 S

SEC: 2, 8, 11, 12, 23, 24



- LEGEND:**
- WETLAND & SURFACE WATER LIMITS
  - WETLAND & SURFACE WATER IMPACTS
  - WETLAND No. WX
  - SURFACE WATER No. SWX
  - EXIST BRIDGE SHADING



FINANCIAL PROJECT NO. 242484-5-32-01 COUNTY: ORANGE		NAME: _____ SIGNATURE: _____ CERTIFICATE NO. _____	SHEET 4 OF 14 DATE 8/07
FLORIDA DEPARTMENT OF TRANSPORTATION		NAME: _____ SIGNATURE: _____ CERTIFICATE NO. _____	SHEET 4 OF 14 DATE 8/07
TION: SR 400 (1-4)		NAME: _____ SIGNATURE: _____ CERTIFICATE NO. _____	SHEET 4 OF 14 DATE 8/07
RING: 29 E		NAME: _____ SIGNATURE: _____ CERTIFICATE NO. _____	SHEET 4 OF 14 DATE 8/07
23, 24		NAME: _____ SIGNATURE: _____ CERTIFICATE NO. _____	SHEET 4 OF 14 DATE 8/07

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 14 of 32



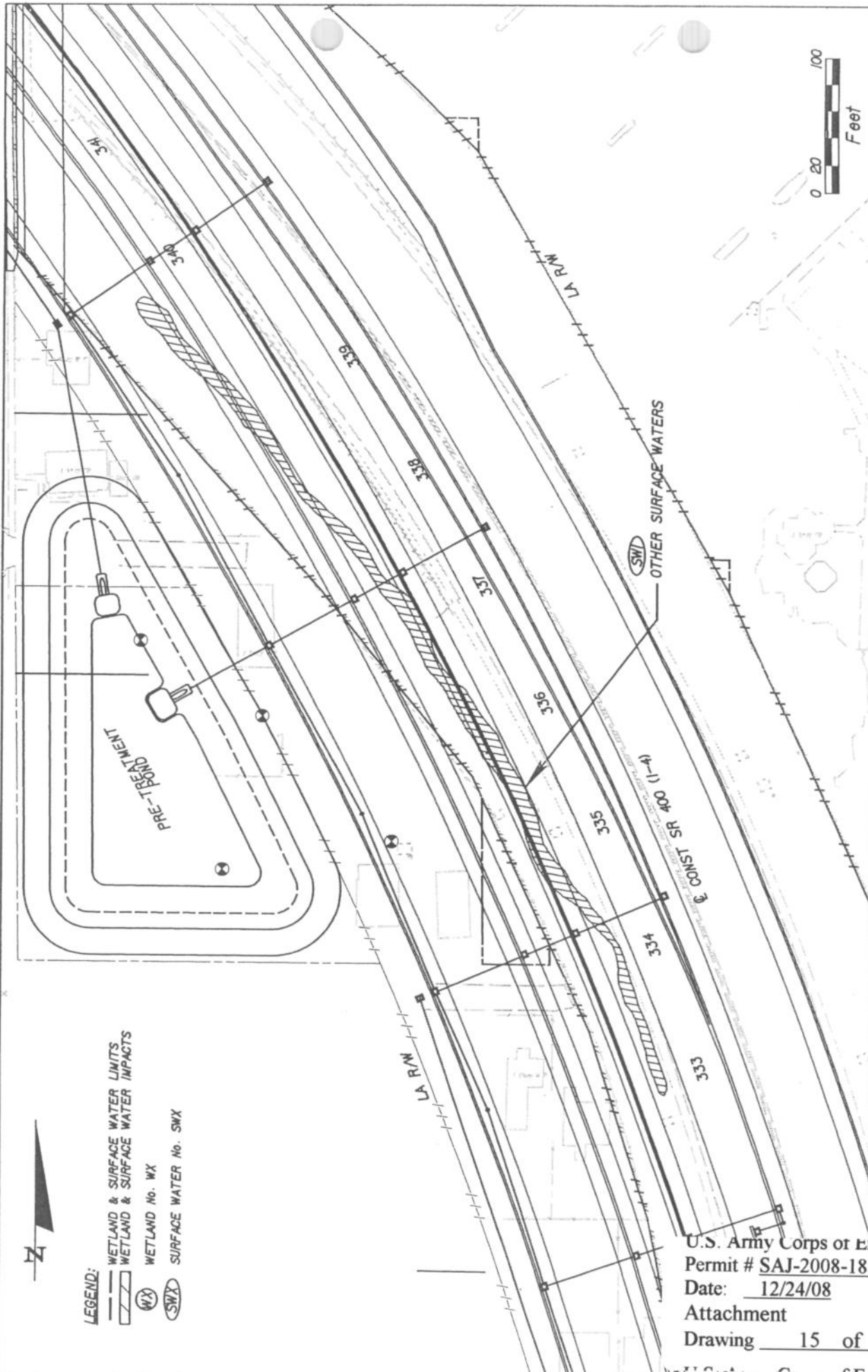


LEGEND:

WETLAND & SURFACE WATER LIMITS  
WETLAND & SURFACE WATER IMPACTS

WETLAND No. WX

SURFACE WATER No. SWX



U.S. Army Corps of Engineers  
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Date: 12/24/08  
Attachment  
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STATION: SR 400 (1-4)

FLORIDA DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT NO. 242484-5-32-01

COUNTY: ORANGE

NAME: \_\_\_\_\_

SIGNATURE \_\_\_\_\_

CERTIFICATE NO. \_\_\_\_\_

DATE: \_\_\_\_\_

RWG: 29 E

23, 24

CG

WMD

SHEET 5 OF 14

DATE 8/07

LEGEND:

- WETLAND & SURFACE WATER LIMITS
- WETLAND & SURFACE WATER IMPACTS
- W4 WETLAND No. WX
- SWX SURFACE WATER No. SWX

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 16 of 32

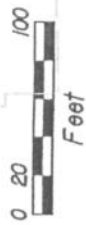
*Lake Fair*

JURISDICTIONAL  
 W4 WETLAND LIMITS

WETLAND IMPACT

CONST SR 400 (1-4)

SW2 OTHER SURFACE WATERS



LA R/W

PROJECT DESCRIPTION: SR 400 (1-4)

FLORIDA DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT NO. 242484-5-32-01

COUNTY: ORANGE

NAME: \_\_\_\_\_

SIGNATURE \_\_\_\_\_

CERTIFICATE NO. \_\_\_\_\_

DATE: \_\_\_\_\_

TWP: 22 S, 21 S      RNG: 29 E

SEC: 2, 8, 11, 12, 23, 24

DER

CG

COE

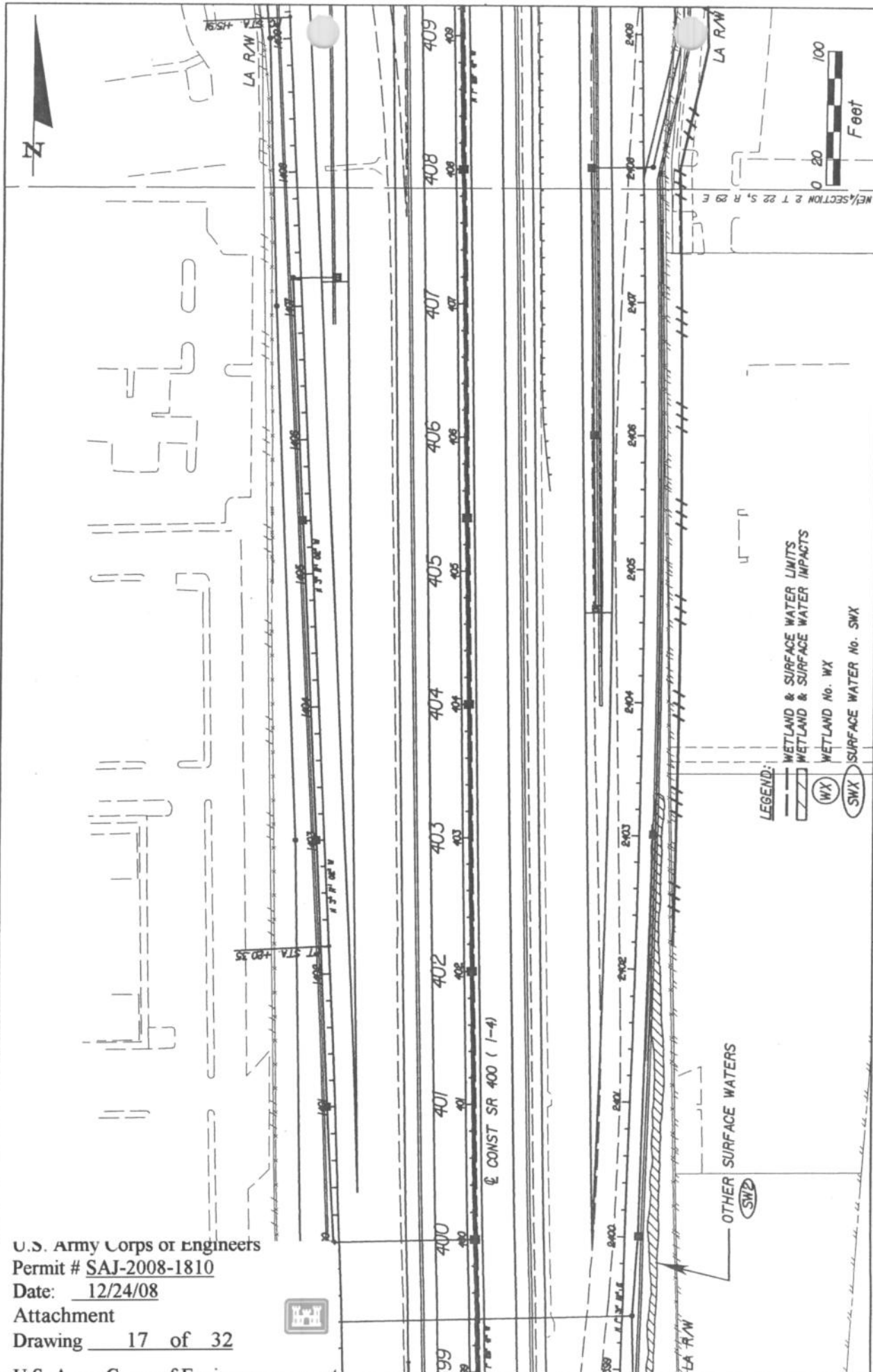
WMD

SHEET 6 OF 14

DATE 8/07

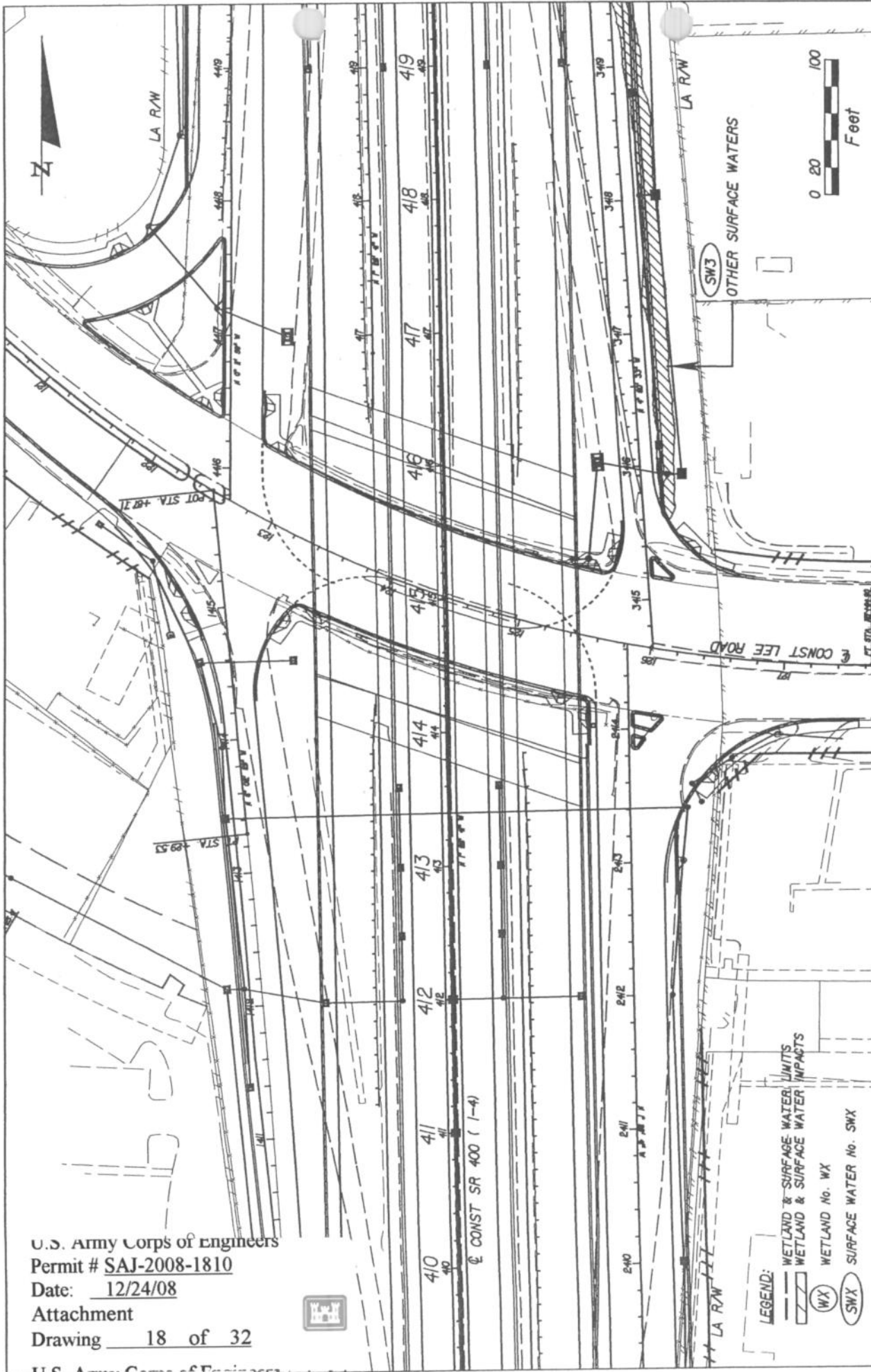


U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 17 of 32



PROJECT DESCRIPTION: SR 400 (1-4)		FINANCIAL PROJECT NO. 242484-5-32-01	
TWP: 22 S, 21 S		COUNTY: ORANGE	
RNG: 29 E		DER	CG
SEC: 2, 8, 11, 12, 23, 24		COE	WMD
NAME: _____		SHEET 7 OF 14	
SIGNATURE _____		DATE 8/07	
CERTIFICATE NO. _____			

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
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PROJECT DESCRIPTION: SR 400 (1-4)

FLORIDA DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT NO. 242484-5-32-01

COUNTY: ORANGE

NAME: \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_  
 CERTIFICATE NO. \_\_\_\_\_

TWP: 22 S, 21 S      RNG: 29 E

SEC: 2, 8, 11, 12, 23, 24

DER

CG

SHEET 8 OF 14

COE

WMD

DATE 8/07





- LEGEND:
- WETLAND & SURFACE WATER LIMITS
  - WETLAND & SURFACE WATER IMPACTS
  - WETLAND No. WX
  - SURFACE WATER No. SWX

POND Z

*wetland AS*  
NO WETLAND IMPACTS  
FOR THIS PROJECT.  
REFER TO PERMIT NO. XXXX

*possibly permitted?*

JURISDICTIONAL WETLAND LIMITS

JURISDICTIONAL WETLAND LIMITS

U.S. Army Corps of Engineers  
Permit # SAJ-2008-1810  
Date: 12/24/08  
Attachment  
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FINANCIAL PROJECT NO. 242484-5-32-01

COUNTY: ORANGE

DER	CG	SHEET 9 OF 14
COE	WMD	DATE 8/07

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: \_\_\_\_\_  
SIGNATURE \_\_\_\_\_  
CERTIFICATE NO. \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT DESCRIPTION: SR 400 (1-4)

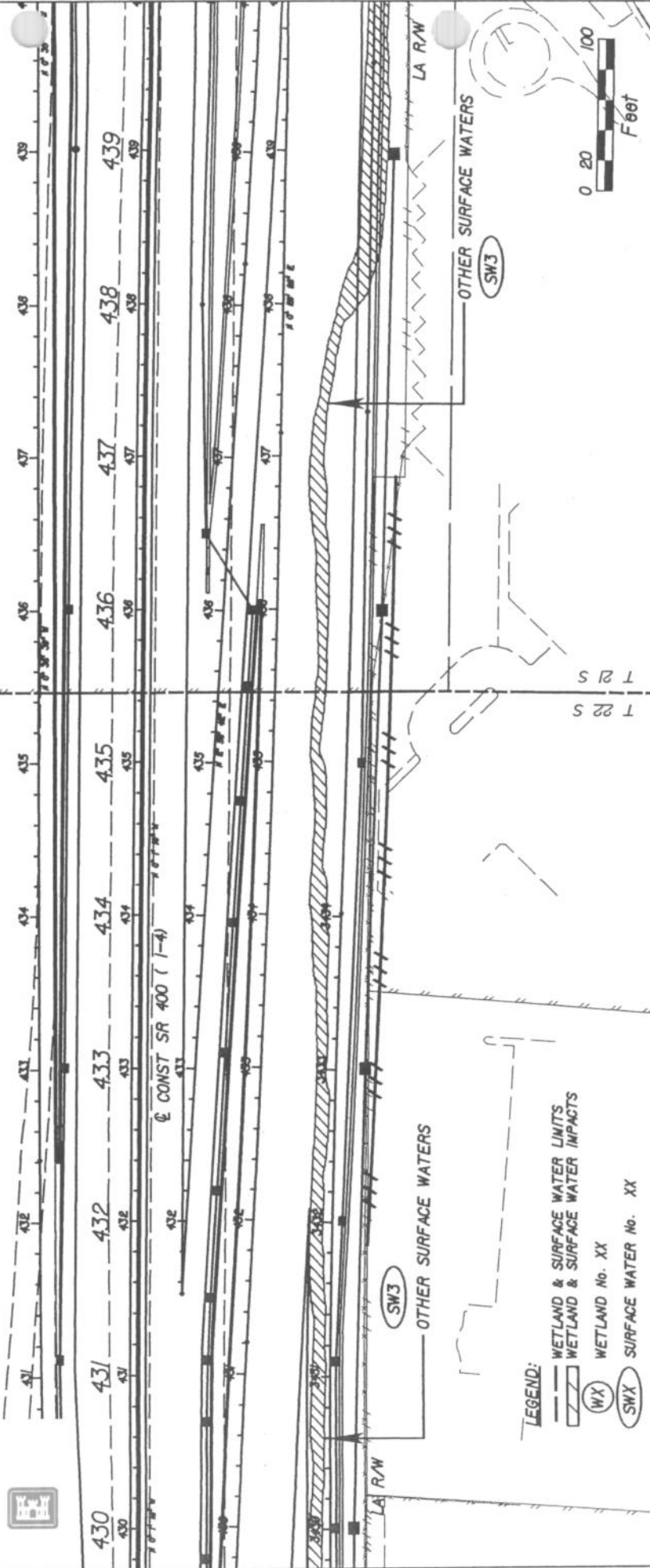
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SEC: 2, 8, 11, 12, 23, 24

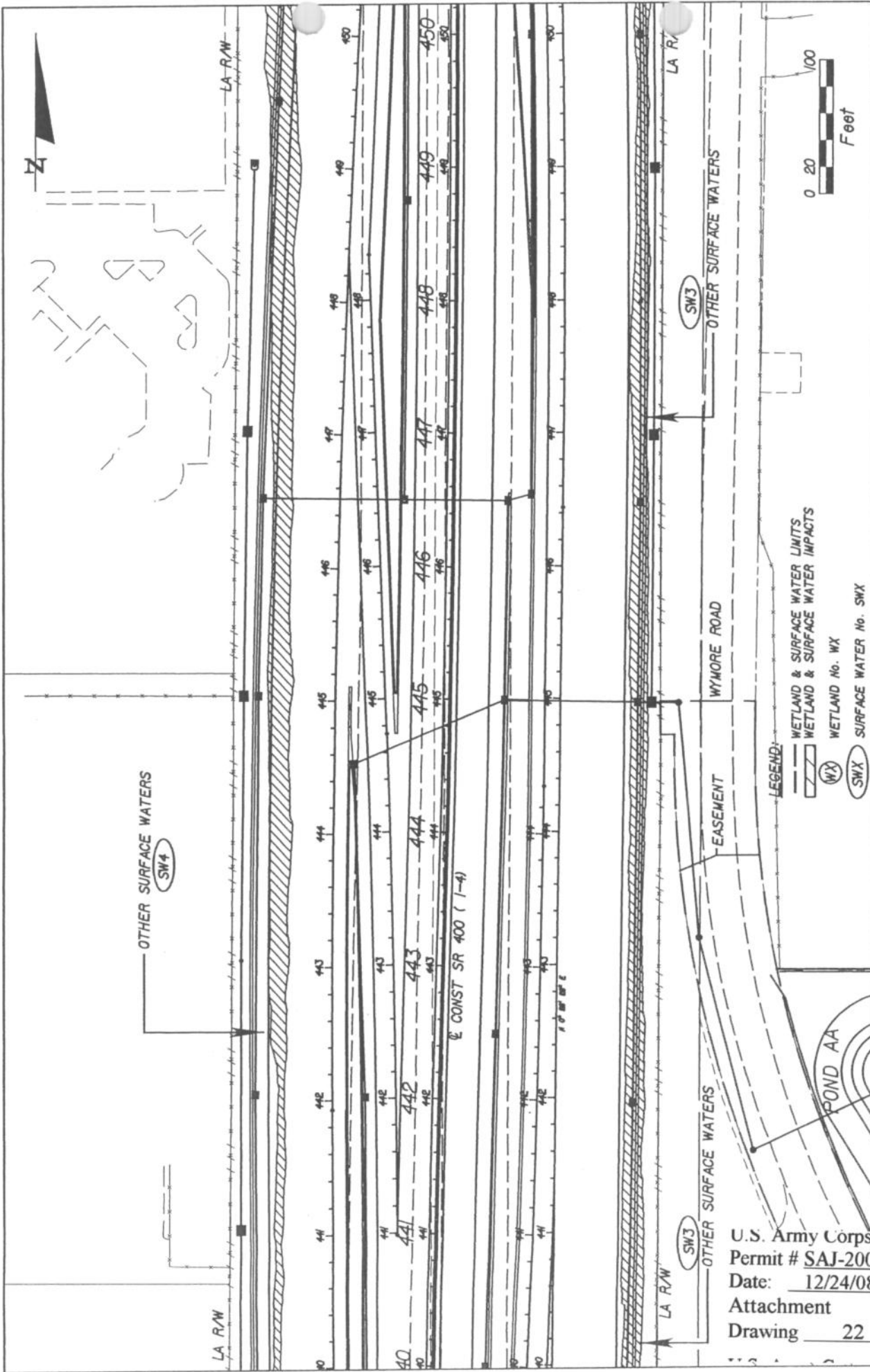


DATE 8/07

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 21 of 32



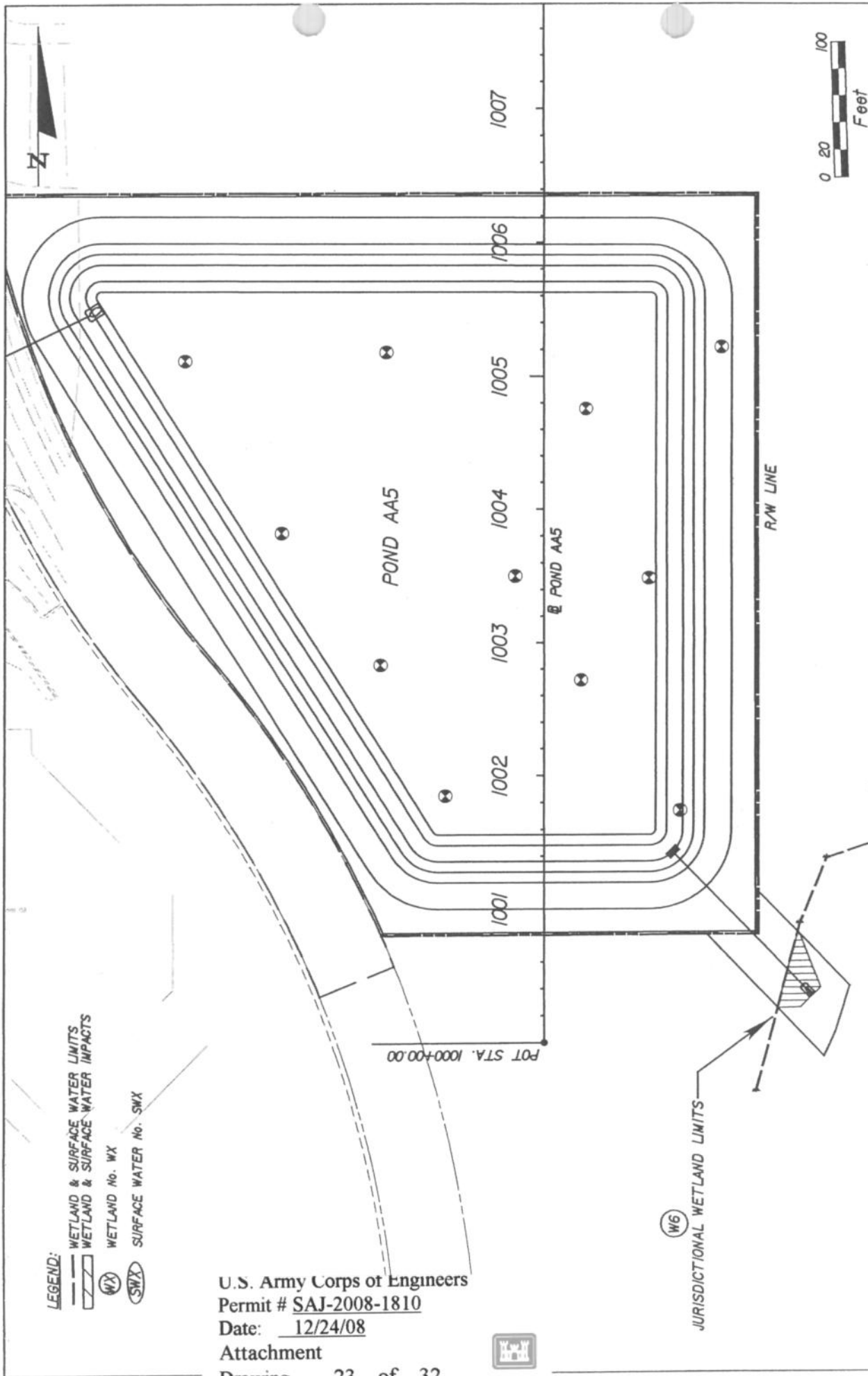
PROJECT DESCRIPTION: SR 400 (1-4)		FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT NO. 242484-5-32-01	
TWP: 22 S, 21 S		NAME: _____		COUNTY: ORANGE	
SEC: 2, 8, 11, 12, 23, 24		SIGNATURE _____		DER	CG
		CERTIFICATE NO. _____		COE	WMD
		DATE: _____		SHEET 11 OF 14	
				DATE 8/07	



FINANCIAL PROJECT NO. 242484-5-32-01 COUNTY: ORANGE		SHEET 12 OF 14 DATE 8/07
NAME: _____ SIGNATURE _____ CERTIFICATE NO. _____		DER _____ CG _____ COE _____ WND _____
FLORIDA DEPARTMENT OF TRANSPORTATION REGION: SR 400 (1-4)		DATE: _____

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 22 of 32

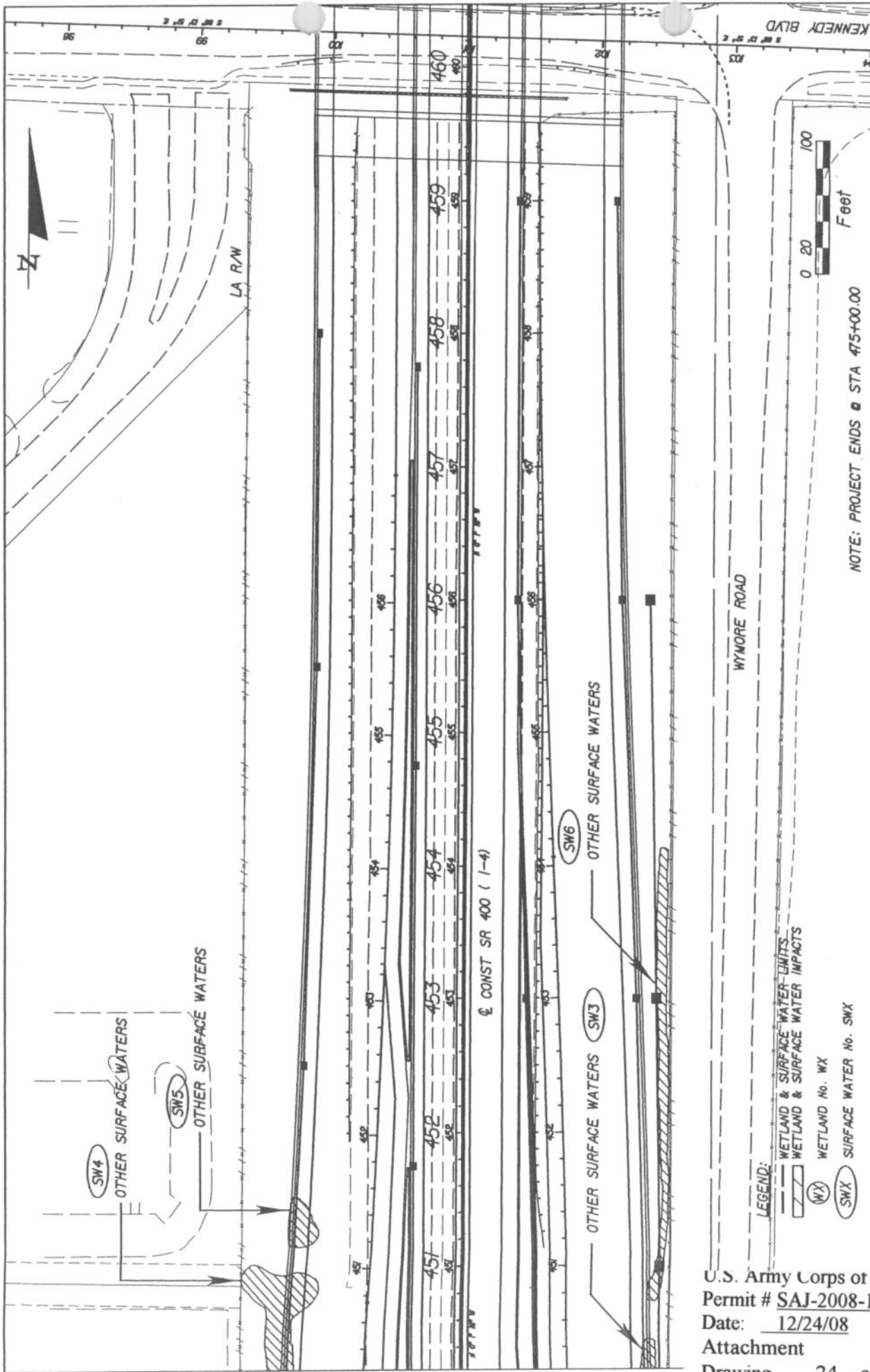




U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 23 of 32

PROJECT DESCRIPTION: SR 400 (1-4)		FINANCIAL PROJECT NO. 242484-5-32-01	
TWP: 22 S, 21 E		COUNTY: ORANGE	
SEC: 2, 8, 11, 12, 23, 24		DER	CG
		COE	WMD
NAME: _____		SHEET 13 OF 14	
SIGNATURE _____		DATE 8/07	
CERTIFICATE NO. _____			





NOTE: PROJECT ENDS @ STA 475+00.00

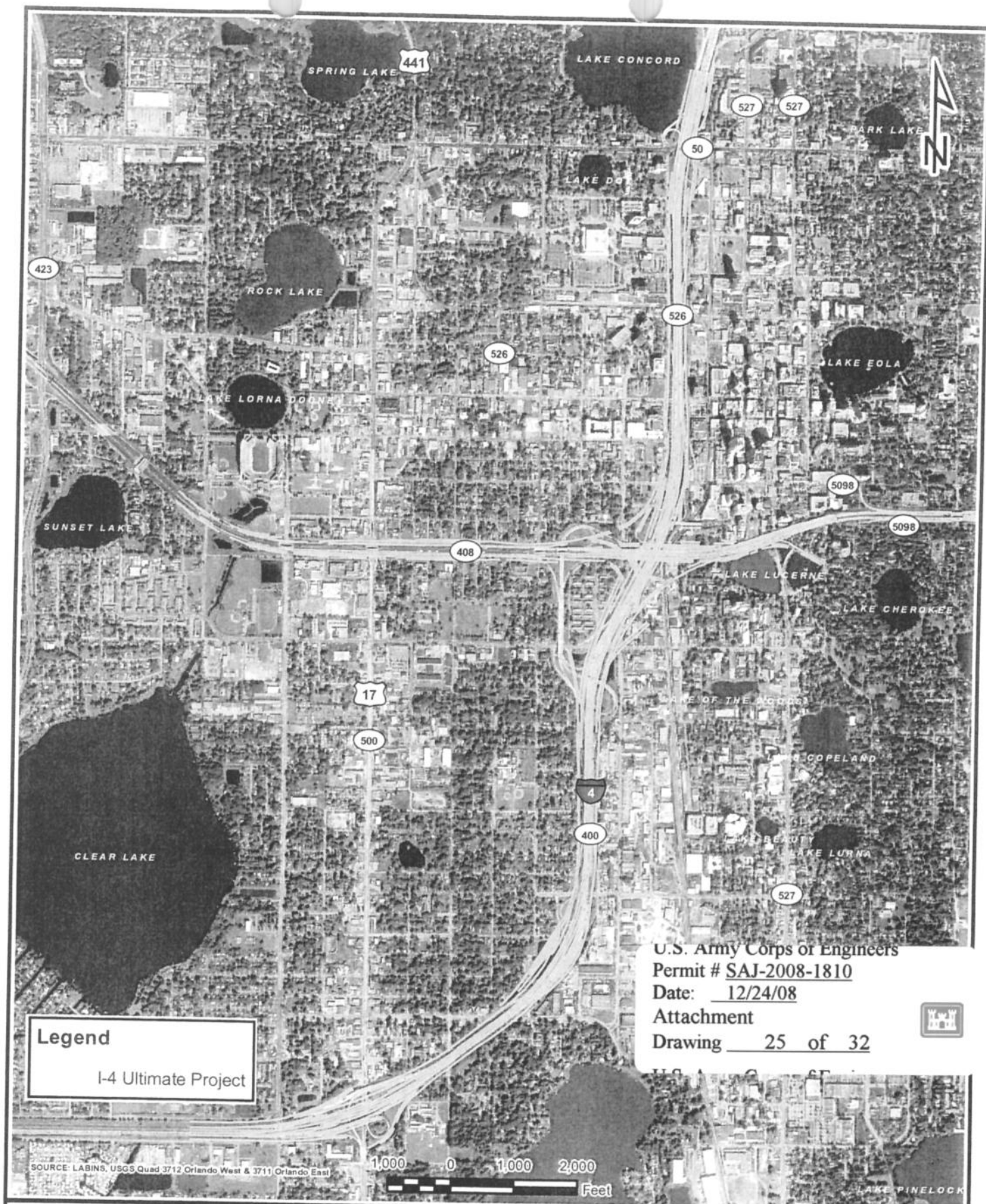
**LEGEND:**

- WETLAND & SURFACE WATER LIMITS
- WETLAND & SURFACE WATER IMPACTS
- WETLAND No. WX
- SURFACE WATER No. SWX

U.S. Army Corps of Engineers  
 Permit # SAJ-2008-1810  
 Date: 12/24/08  
 Attachment  
 Drawing 24 of 32

FINANCIAL PROJECT NO. 242484-5-32-01		FLORIDA DEPARTMENT OF TRANSPORTATION	
COUNTY: ORANGE		NAME: _____	DATE: _____
DER	CG	SIGNATURE _____	CERTIFICATE NO. _____
COE	WMD	21 S	11, 12, 23, 24
SHEET 14 OF 14		DATE 8/07	





## Legend

I-4 Ultimate Project

**Sciences**

E Sciences, Incorporated  
FL Engineering Lic. #8691  
228 South Hughey Ave  
Orlando, Florida, 32801  
www.esciencesinc.com  
Phone: 407-481-9006  
Fax: 407-481-9627

I-4 Ultimate Improvement Project  
from South of Orange Blossom Trail  
to South of Ivanhoe Blvd  
(Fin. No. 242484-4-52-01)

Sections 2 and 3, Township 22 South, Range 29 East;  
Sections 23, 26, 35, Township 23 South, Range 29 East  
Orlando, Orange County, Florida

Aerial Photograph

FIGURE

2

DRAWN  
BY: RCO

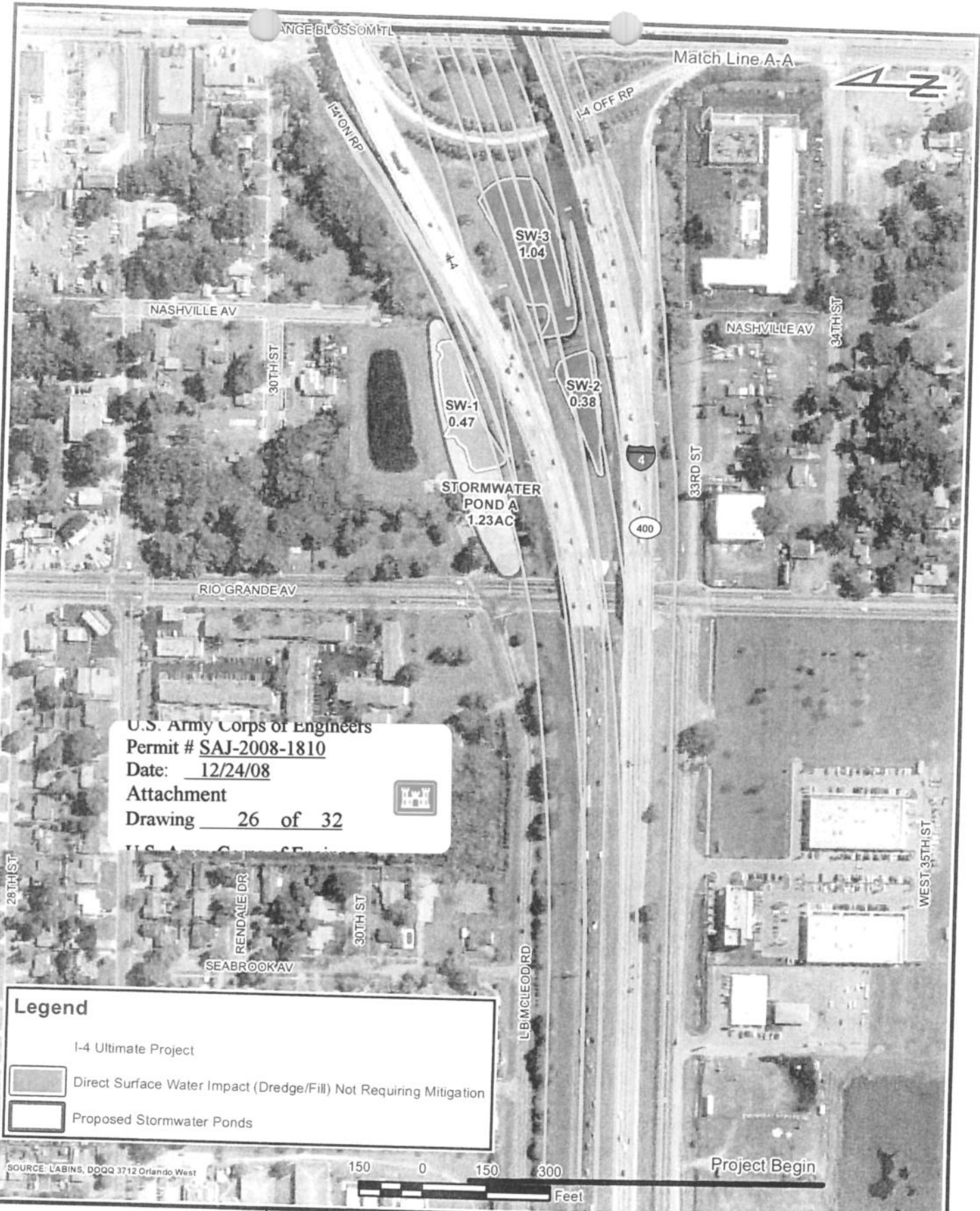
CHECKED  
BY:

PROJECT NUMBER:  
1-0237-001

SCALE:  
1" equals 2,000'

DATE:  
10/17/2007





**Sciences**

E Sciences, Incorporated  
 FL Engineering Lic. #8691  
 228 South Hughey Ave  
 Orlando, Florida, 32801  
 www.esciencesinc.com  
 Phone: 407-481-9006  
 Fax: 407-481-9627

I-4 Ultimate Improvement Project  
 from South of Orange Blossom Trail  
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 (Fin. No. 242484-4-52-01)

Sections 2 and 3, Township 22 South, Range 29 East;  
 Sections 23, 26, 35, Township 23 South, Range 29 East  
 Orlando, Orange County, Florida

Wetland and  
 Surface Water Impacts

FIGURE

8.1

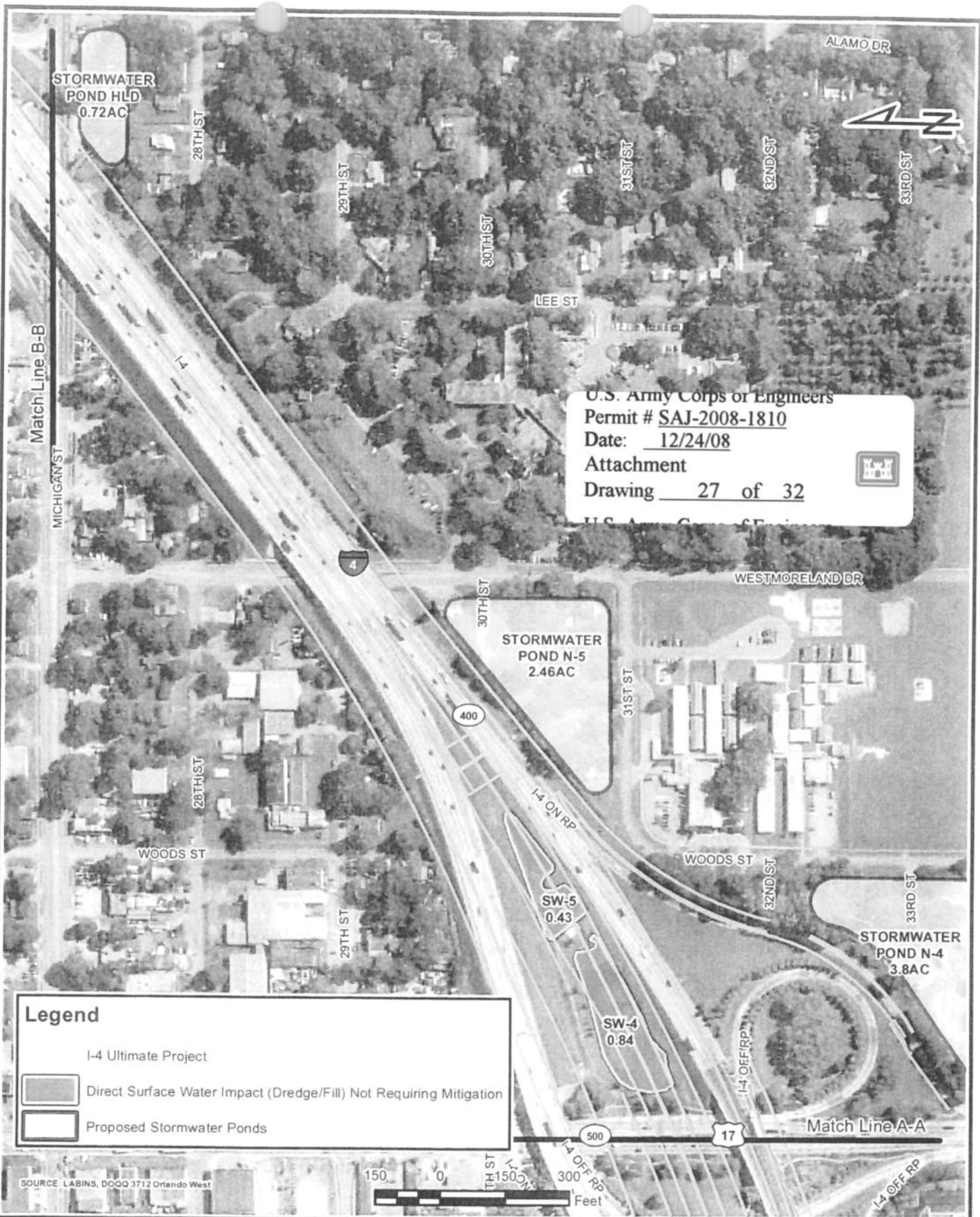
DRAWN  
 BY: TH

CHECKED  
 BY:

PROJECT NUMBER:  
 1-0237-001

SCALE:  
 1" equals 300'

DATE:  
 10/17/2007



U.S. Army Corps of Engineers  
 Permit # **SAJ-2008-1810**  
 Date: 12/24/08  
 Attachment  
 Drawing 27 of 32

**Legend**

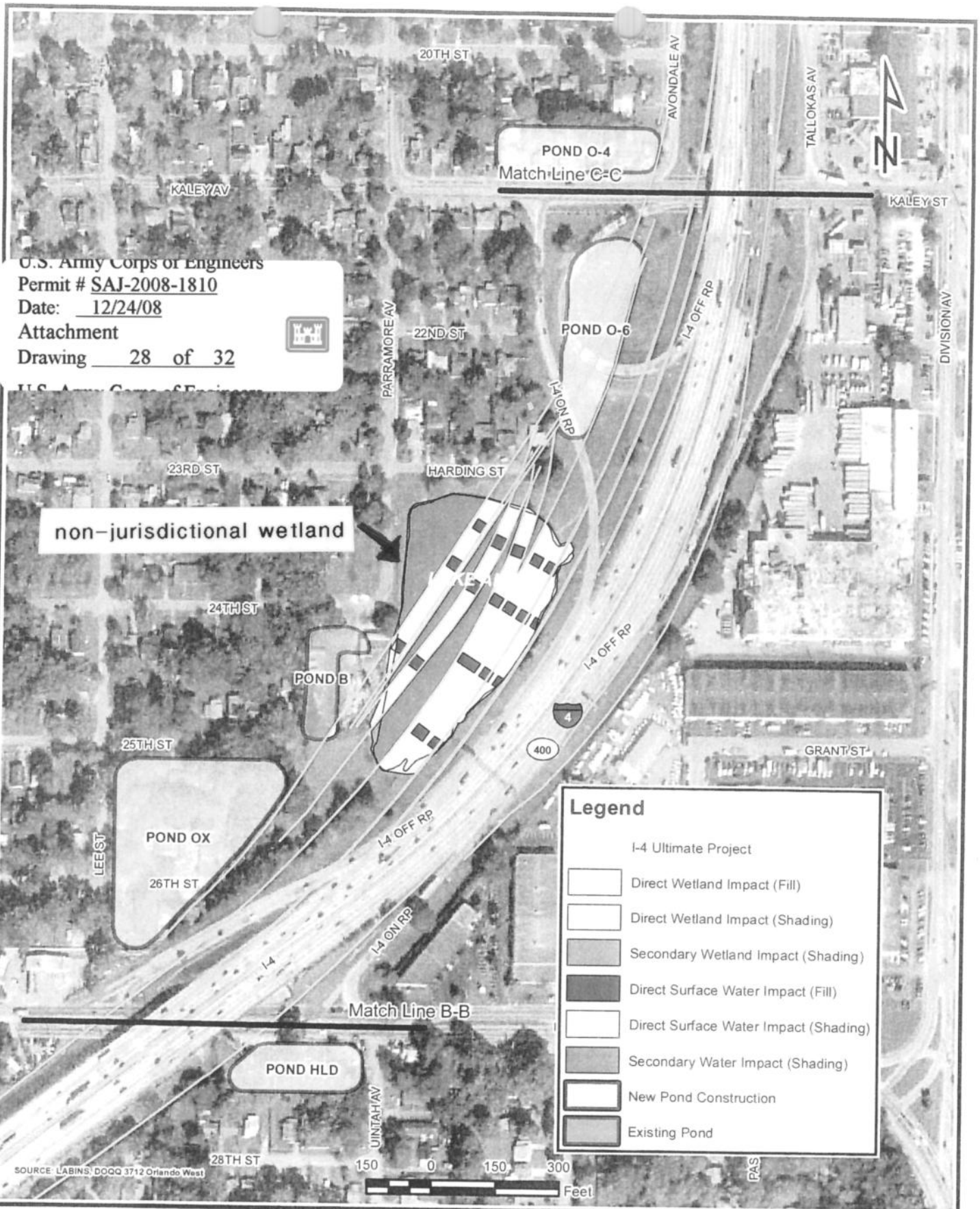
I-4 Ultimate Project

Direct Surface Water Impact (Dredge/Fill) Not Requiring Mitigation

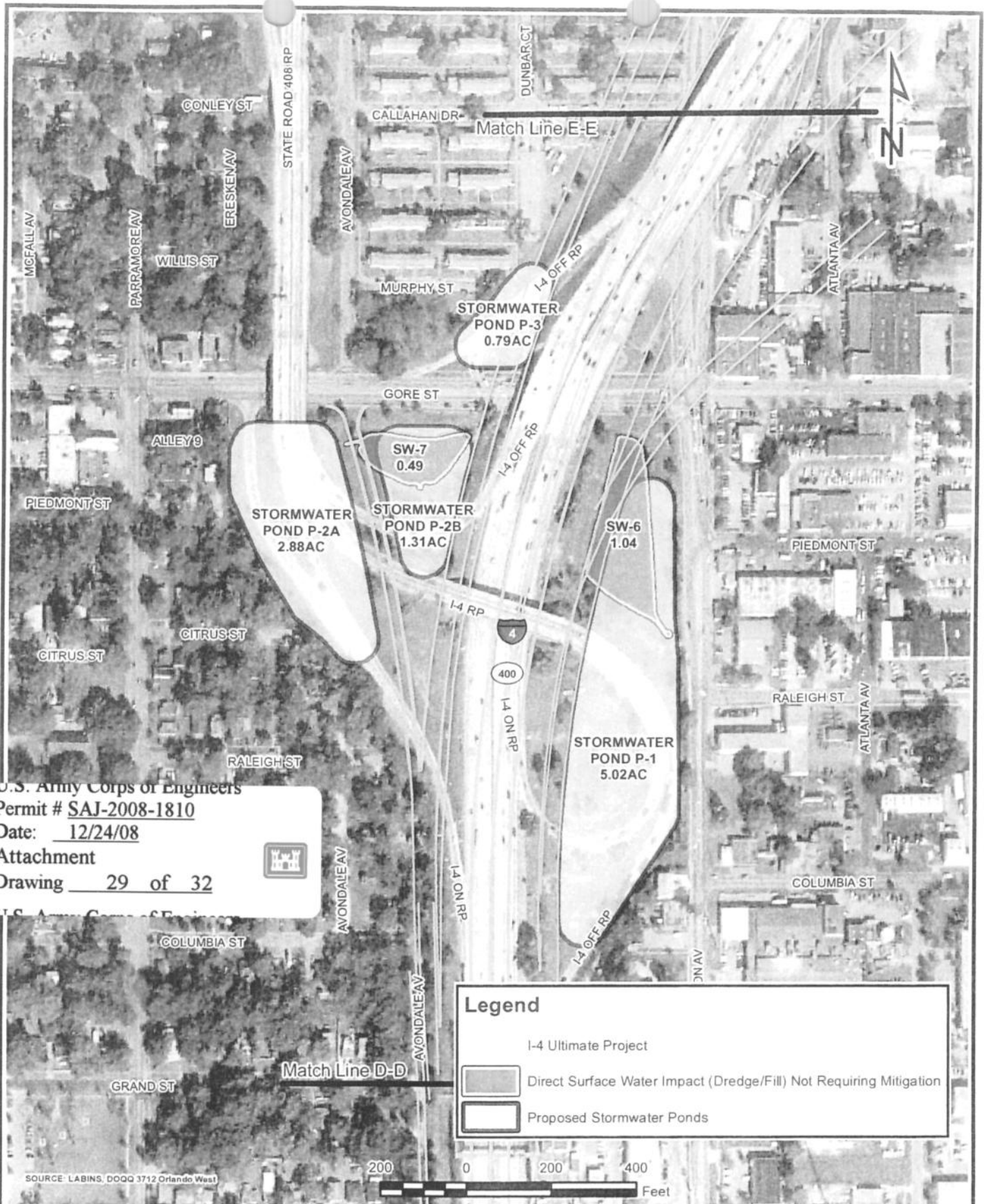
Proposed Stormwater Ponds

SOURCE: LABINS, DOQQ 3712 Orlando West

<p><b>Sciences</b></p> <p>E Sciences, Incorporated          FL Engineering Lic. #8691          228 South Hughey Ave          Orlando, Florida, 32801          www.esciencesinc.com          Phone: 407-481-9006          Fax: 407-481-9627</p>			<p>I-4 Ultimate Improvement Project          from South of Orange Blossom Trail          to South of Ivanhoe Blvd          (Fin. No. 242484-4-52-01)          Sections 2 and 3, Township 22 South, Range 29 East;          Sections 23, 26, 35, Township 23 South, Range 29 East          Orlando, Orange County, Florida</p>		<p>Wetland and          Surface Water Impacts</p>	<p>FIGURE  <b>8.2</b></p>
<p>DRAWN BY: TH</p>	<p>CHECKED BY:</p>	<p>PROJECT NUMBER:          1-0237-001</p>	<p>SCALE:          1" equals 300'</p>		<p>DATE:          10/17/2007</p>	







U.S. Army Corps of Engineers

Permit # SAJ-2008-1810

Date: 12/24/08

Attachment

Drawing 29 of 32



U.S. Army Corps of Engineers

### Legend

I-4 Ultimate Project

- Direct Surface Water Impact (Dredge/Fill) Not Requiring Mitigation
- Proposed Stormwater Ponds

SOURCE: LABINS, DOQQ 3712 Orlando West

**Sciences**

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FL Engineering Lic. #9691  
228 South Hughey Ave  
Orlando, Florida, 32801  
www.esciencesinc.com  
Phone: 407-481-9006  
Fax: 407-481-9627

I-4 Ultimate Improvement Project  
from South of Orange Blossom Trail  
to South of Ivanhoe Blvd  
(Fin. No. 242484-4-52-01)

Sections 2 and 3, Township 22 South, Range 29 East;  
Sections 23, 26, 35, Township 23 South, Range 29 East  
Orlando, Orange County, Florida

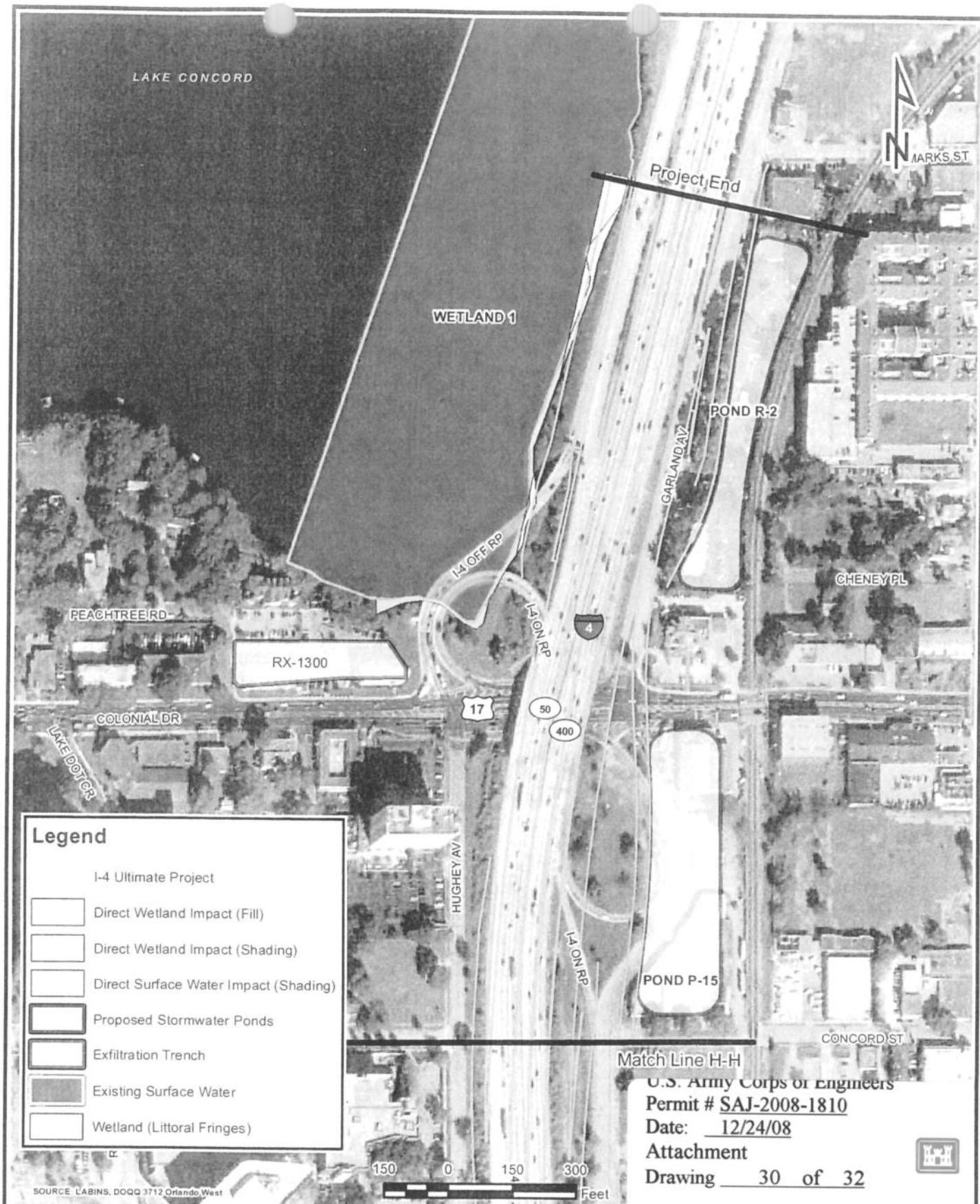
Wetland and  
Surface Water Impacts

FIGURE

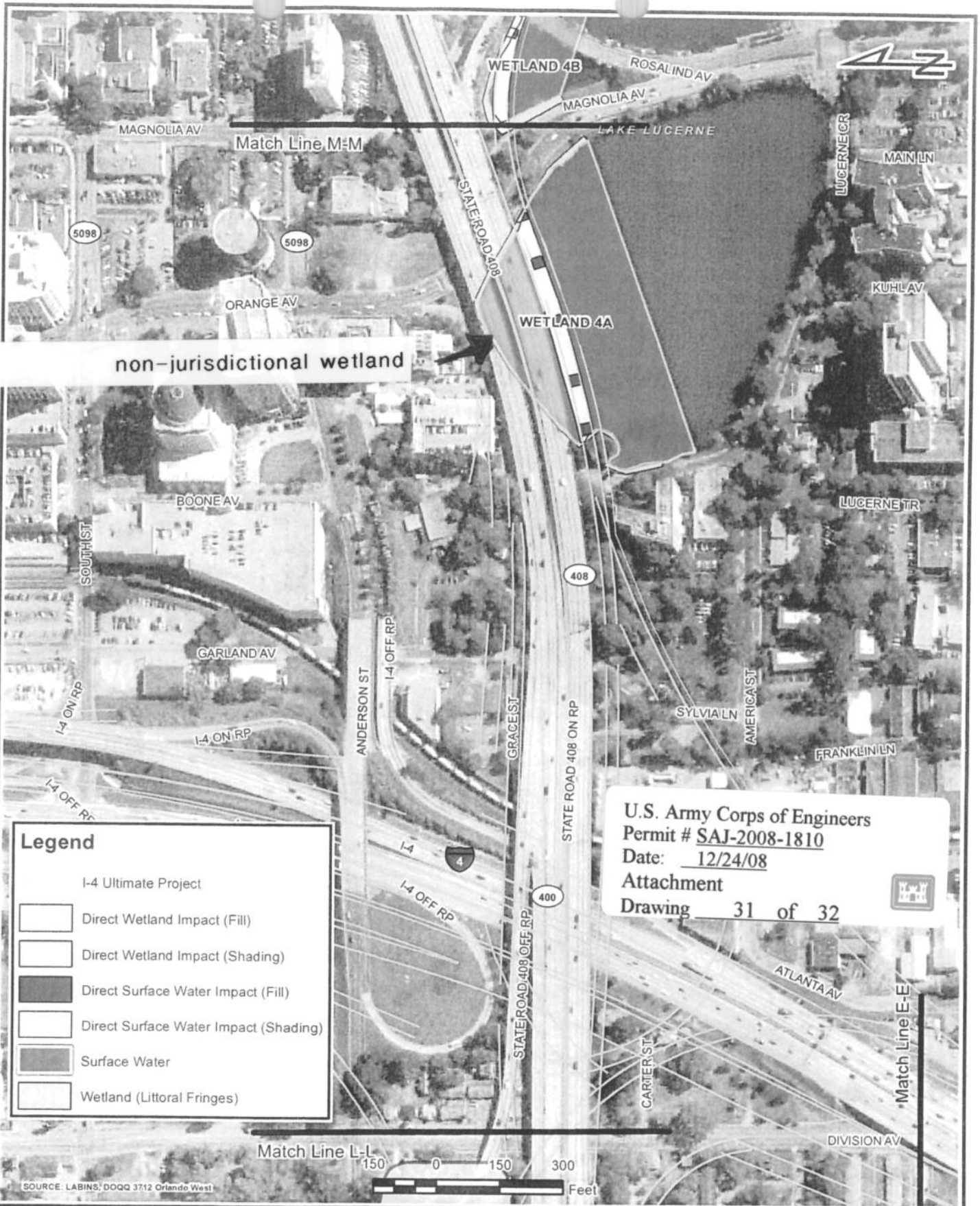
**8.4**

DRAWN BY: TH	CHECKED BY:	PROJECT NUMBER: 1-0237-001
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SCALE: 1" equals 300'	DATE: 10/17/2007
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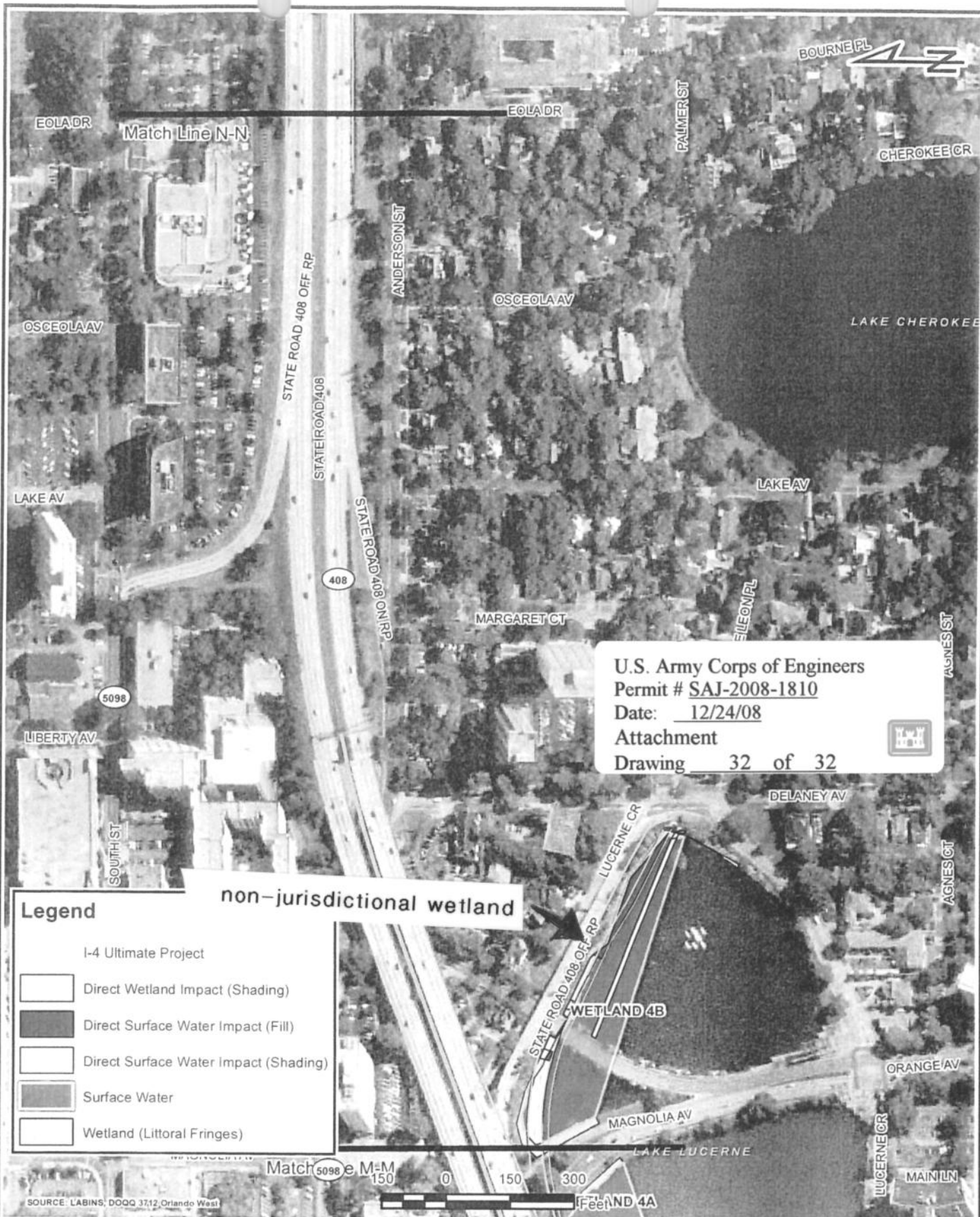
<b>Sciences</b> E Sciences, Incorporated FL Engineering Lic. #8691 228 South Hughey Ave Orlando, Florida, 32801 www.esciencesinc.com Phone: 407-481-9006 Fax: 407-481-9627			<b>I-4 Ultimate Improvement Project</b> from South of Orange Blossom Trail to South of Ivanhoe Blvd (Fin. No. 242484-4-52-01) Sections 2 and 3, Township 22 South, Range 29 East; Sections 23, 26, 35, Township 23 South, Range 29 East Orlando, Orange County, Florida		Wetland and Surface Water Impacts	FIGURE <b>8.5</b>
DRAWN BY: TH	CHECKED BY:	PROJECT NUMBER: 1-0237-001	SCALE: 1" equals 300'		DATE: 10/17/2007	



P:\Project\1-200-2601-237-01-500 URS I-4\GIS\Bos Summary Report 20070925\wetland\_water impact-4.mxd

<p><b>E Sciences</b>          E Sciences, Incorporated          FL Engineering Lic. #8691          228 South Hughey Ave          Orlando, Florida, 32801          www.esciencesinc.com          Phone: 407-481-9006          Fax: 407-481-9627</p>		<p><b>I-4 Ultimate Improvement Project</b>          from South of Orange Blossom Trail          to South of Ivanhoe Blvd          (Fin. No. 242484-4-52-01)          Sections 2 and 3, Township 22 South, Range 29 East;          Sections 23, 26, 35, Township 23 South, Range 29 East          Orlando, Orange County, Florida</p>		<p><b>Wetland and Surface Water Impacts</b></p>		<p>FIGURE <b>8.A</b></p>	
DRAWN BY: TH	CHECKED BY:	PROJECT NUMBER: 1-0237-001	SCALE: 1" equals 300'		DATE: 10/17/2007		





**Sciences**

E Sciences, Incorporated  
 FL Engineering Lic. #8691  
 228 South Hughey Ave  
 Orlando, Florida, 32801  
 www.esciencesinc.com  
 Phone: 407-481-9006  
 Fax: 407-481-9627

**I-4 Ultimate Improvement Project**  
 from South of Orange Blossom Trail  
 to South of Ivanhoe Blvd  
 (Fin. No. 242484-4-52-01)

Sections 2 and 3, Township 22 South, Range 29 East;  
 Sections 23, 26, 35, Township 23 South, Range 29 East  
 Orlando, Orange County, Florida

**Wetlands and  
 Surface Water Impacts**

FIGURE

**8.B**

**DRAWN**  
 BY: TH

**CHECKED**  
 BY:

**PROJECT NUMBER:**

1-0237-001

**SCALE:**  
 1" equals 300'

**DATE:**  
 10/17/2007



ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
Post Office Box 1429  
Palatka, Florida 32178-1429

PERMIT NO. 4-095-62355-8

DATE ISSUED: February 10, 2009

PROJECT NAME: I-4 Ultimate (OBT to SR 436), FPID 242484-4, 242484-5 & 242484-6

**A PERMIT AUTHORIZING:**

Construction of a surface water management system with stormwater treatment by exfiltration trench, retention, and wet detention for Interstate 4 (SR 400) from South of OBT to North of Maitland Blvd, a 525.00-acre project. This permit also authorizes work in, on, or over 28.31 acres of wetlands and other surface waters.

**LOCATION:**

Section(s): 25, 27, 35 Township(s): 21S Range(s): 29E

Orange County

**ISSUED TO:**

Florida Department of Transportation-District 5  
719 South Woodland Boulevard  
Deland, FL 32720

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights of privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

**PERMIT IS CONDITIONED UPON:**

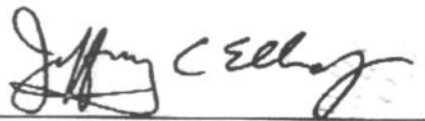
See conditions on attached "Exhibit A", dated February 10, 2009

**AUTHORIZED BY:** St. Johns River Water Management District

Department of Water Resources

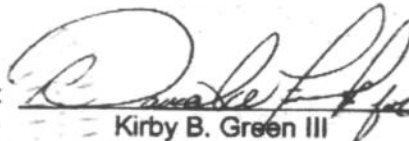
Governing Board

By:



Jeff Elledge  
(Director)

By:



Kirby B. Green III  
(Assistant Secretary)

U.S. Army Corps of Engineers

Permit # 2008-1810

Date: 3/5/09

Attachment: 2



**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-095-62355-8**  
**FLORIDA DEPARTMENT OF TRANSPORTATION-DISTRICT 5**  
**DATED FEBRUARY 10, 2009**

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
  1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
  2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
  3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
  4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
  5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
  6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under rule 40C-1.1006, F.A.C., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of rule 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. At a minimum, all retention and detention storage areas must be excavated to rough grade prior to building construction or placement of impervious surface within the area to be served by those facilities. To prevent reduction in storage volume and percolation rates, all accumulated sediment must be removed from the storage area prior to final grading and stabilization.



21. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
22. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
23. The operation and maintenance entity shall submit inspection reports to the District one year after the operation phase permit becomes effective and every two years thereafter on District for EN-46. The inspection form must be signed and sealed by an appropriate registered professional.
24. The proposed surface water management system shall be constructed in accordance with the plans received by the District on April 25, 2008, and as modified by sheets 33, 34, 36, 39, 40, 42, 135-139, 213, 216, 218, 231, 243, 244, 468, 469, 472, 547, 551, 553, 554, 556, 561, 581, 725-728, 730-732, 735-737, 1321, 1323-1342 received by the District on October 1, 2008, as modified by sheets 68, 234-236, 270, 272, 280, 291, 298, 300, 302, 304, 306, 563, 579, and 724 received by the District on November 21, 2008, and as modified by sheets 145 and 729 received by the District on January 21, 2009.
25. Mitigation to offset 0.28 acres of impacts to wetlands and other surface waters within the Wekiva Nested Basin (Basin 15) authorized by this permit will be provided through Section 373.4137, F.S. Construction activities shall not occur prior to the approval of the mitigation plan by the District's Governing Board or its designee.
26. Mitigation to offset 3.95 acres of impacts to wetlands and other surface waters within the St Johns River (Canaveral Marshes to Wekiva River Basin (Basin 18) authorized by this permit will be provided through Section 373.4137, F.S. Construction activities shall not occur prior to the approval of the mitigation plan by the District's Governing Board or its designee.
27. Mitigation to offset 5.14 acres of impacts to wetlands and other surface waters within the Lake Jesup Basin (Basin 23) authorized by this permit will be provided through Section 373.4137, F.S. Construction activities shall not occur prior to the approval of the mitigation plan by the District's Governing Board or its designee.
28. Prior to initiating any construction within Lake Concord (Wetland W4-01), the impacts to which are being mitigated via the purchase of mitigation credits, the District must receive a letter of verification from the Lake Monroe Mitigation Bank stating that the transaction for the transfer of 1.4 mitigation credits has been completed.
29. In the event that the permittee does not successfully complete the transaction to obtain 1.4 mitigation credits from the Lake Monroe Mitigation Bank, the permittee must obtain a permit modification to provide alternative mitigation for the wetland impacts.
30. Prior to initiation of construction, the permittee shall submit a detailed erosion, sediment, and turbidity control plan to the District for written approval. The plan shall detail all erosion, sediment, and turbidity control measures to be implemented both during and after construction. At a minimum the plan shall include:
  - a. Identification of any areas where any dewatering will be performed during construction;
  - b. Details of specific erosion, sediment, and turbidity control measures to be implemented to control the discharge of turbid water due to any dewatering activities; and
  - c. Construction sequencing and details of all erosion, sediment, and turbidity control



measures to be implemented during each sequence.

Construction shall not commence until the permittee receives written approval of the plan from the District.

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Submit this form and one set of as-built engineered drawings to the U.S. Army Corps of Engineers, Enforcement Branch, Post Office Box 4970, Jacksonville, Florida 32232-0019. If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-2907.

1. Department of the Army Permit Number: \_\_\_\_\_

2. Permittee Information:

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

3. Project Site Identification:

Physical location/address \_\_\_\_\_  
\_\_\_\_\_

4. As-Built Certification:

I hereby certify that the authorized work has been accomplished in accordance with the Department of the Army permit with any deviations noted below. This determination is based upon on-site observation, scheduled and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

\_\_\_\_\_  
Signature of Engineer

\_\_\_\_\_  
Name (Please type)

\_\_\_\_\_  
Florida Reg. Number

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
ZIP

(Affix Seal)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone Number

Deviations from the approved plans and specifications: (attach additional pages if necessary)

U.S. Army Corps of Engineers  
Permit # 2008-1810  
Date: 3/5/09  
Attachment: 3

